

FILE 'HOME' ENTERED AT 15:29:37 ON 19 FEB 2004

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:32:15 ON 19 FEB 2004
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

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=> S glnap?  
FILE 'MEDLINE'  
L1 54 GLNAP?
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FILE 'SCISEARCH'
L2 36 GLNAP?

FILE 'LIFESCI'
L3 50 GLNAP?

FILE 'BIOTECHDS'
L4 6 GLNAP?

FILE 'BIOSIS'
L5 57 GLNAP?

FILE 'EMBASE'
L6 46 GLNAP?
FILE 'HCAPLUS'

FILE 'NTIS'

FILE 'ESBIOBASE'

FILE 'BIOTECHNO'

FILE 'WPIIDS'

TOTAL FOR ALL FILES

=> s acetyl ph

EDLINE

38304 ACETYL
122642 PHOSPHATE

7642 PHOSPHATE
331 ACETYL PHOSPHATE

31 ACETYL PHOSPHATE (ACETYL (W) PHOSPHATE)

(ACETYL(W) PHO

71 ACETYLBP
88566 ACETATE

88866 ACETYL

FILE 'SCISEARCH'
38376 ACETYL

133664 PHOSPHATE
 324 ACETYL PHOSPHATE
 (ACETYL(W) PHOSPHATE)
 34 ACETYLPHOSPHATE
87765 ACETATE
L14 88046 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'LIFESCI'
 10931 "ACETYL"
 37510 "PHOSPHATE"
 174 ACETYL PHOSPHATE
 ("ACETYL" (W) "PHOSPHATE")
 23 ACETYLPHOSPHATE
23830 ACETATE
L15 23970 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'BIOTECHDS'
 2792 ACETYL
 16765 PHOSPHATE
 49 ACETYL PHOSPHATE
 (ACETYL(W) PHOSPHATE)
 11 ACETYLPHOSPHATE
11452 ACETATE
L16 11477 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'BIOSIS'
 85130 ACETYL
 191421 PHOSPHATE
 430 ACETYL PHOSPHATE
 (ACETYL(W) PHOSPHATE)
 82 ACETYLPHOSPHATE
115703 ACETATE
L17 116070 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'EMBASE'
 39809 "ACETYL"
 157739 "PHOSPHATE"
 274 ACETYL PHOSPHATE
 ("ACETYL" (W) "PHOSPHATE")
 41 ACETYLPHOSPHATE
103030 ACETATE
L18 103265 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'HCAPLUS'
 141028 ACETYL
 496799 PHOSPHATE
 934 ACETYL PHOSPHATE
 (ACETYL(W) PHOSPHATE)
 239 ACETYLPHOSPHATE
465342 ACETATE
L19 466109 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'NTIS'
 727 ACETYL
 6316 PHOSPHATE
 1 ACETYL PHOSPHATE
 (ACETYL(W) PHOSPHATE)
 1 ACETYLPHOSPHATE
3054 ACETATE
L20 3054 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'ESBIOBASE'
 12179 ACETYL
 38420 PHOSPHATE

145 ACETYL PHOSPHATE
(ACETYL(W) PHOSPHATE)
17 ACETYLPHOSPHATE
23735 ACETATE
L21 23865 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'BIOTECHNO'
12360 ACETYL
51707 PHOSPHATE
190 ACETYL PHOSPHATE
(ACETYL(W) PHOSPHATE)
29 ACETYLPHOSPHATE
29320 ACETATE
L22 29484 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'WPIDS'
25180 ACETYL
84162 PHOSPHATE
33 ACETYL PHOSPHATE
(ACETYL(W) PHOSPHATE)
18 ACETYLPHOSPHATE
114024 ACETATE
L23 114051 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

TOTAL FOR ALL FILES
L24 1068257 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

=> s promoter?
FILE 'MEDLINE'
L25 104960 PROMOTER?

FILE 'SCISEARCH'
L26 109056 PROMOTER?

FILE 'LIFESCI'
L27 61248 PROMOTER?

FILE 'BIOTECHDS'
L28 29686 PROMOTER?

FILE 'BIOSIS'
L29 118319 PROMOTER?

FILE 'EMBASE'
L30 88207 PROMOTER?

FILE 'HCAPLUS'
L31 163196 PROMOTER?

FILE 'NTIS'
L32 1556 PROMOTER?

FILE 'ESBIOBASE'
L33 57674 PROMOTER?

FILE 'BIOTECHNO'
L34 76660 PROMOTER?

FILE 'WPIDS'
L35 31833 PROMOTER?

TOTAL FOR ALL FILES
L36 842395 PROMOTER?

```
=> s l12 and (l24 or l36(8a)(induc? or regulat? or activat? or modulat?))  
FILE 'MEDLINE'  
    1467371 INDUC?  
    655894 REGULAT?  
    645922 ACTIVAT?  
    188652 MODULAT?  
    28368 L25(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L37      32 L1 AND (L13 OR L25(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))  
  
FILE 'SCISEARCH'  
    1356772 INDUC?  
    570603 REGULAT?  
    708279 ACTIVAT?  
    271427 MODULAT?  
    29309 L26(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L38      25 L2 AND (L14 OR L26(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))  
  
FILE 'LIFESCI'  
    380694 INDUC?  
    228629 REGULAT?  
    206735 ACTIVAT?  
    69294 MODULAT?  
    20277 L27(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L39      31 L3 AND (L15 OR L27(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))  
  
FILE 'BIOTECHDS'  
    37497 INDUC?  
    23837 REGULAT?  
    22547 ACTIVAT?  
    11056 MODULAT?  
    5811 L28(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L40      5 L4 AND (L16 OR L28(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))  
  
FILE 'BIOSIS'  
    1374962 INDUC?  
    724837 REGULAT?  
    668480 ACTIVAT?  
    224051 MODULAT?  
    33393 L29(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L41      35 L5 AND (L17 OR L29(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))  
  
FILE 'EMBASE'  
    1119846 INDUC?  
    544971 REGULAT?  
    566933 ACTIVAT?  
    181251 MODULAT?  
    26999 L30(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L42      30 L6 AND (L18 OR L30(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))  
  
FILE 'HCAPLUS'  
    1815897 INDUC?  
    807692 REGULAT?  
    1099800 ACTIVAT?  
    280272 MODULAT?  
    45054 L31(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)  
L43      47 L7 AND (L19 OR L31(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?  
        ?))
```

FILE 'NTIS'
67562 INDUC?
81873 REGULAT?
27784 ACTIVAT?
21158 MODULAT?
L44 260 L32 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
0 L8 AND (L20 OR L32 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?
?))

FILE 'ESBIOBASE'
434023 INDUC?
321283 REGULAT?
260977 ACTIVAT?
90535 MODULAT?
19783 L33 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L45 17 L9 AND (L21 OR L33 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?
?))

FILE 'BIOTECHNO'
335433 INDUC?
271996 REGULAT?
233622 ACTIVAT?
58358 MODULAT?
24255 L34 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L46 28 L10 AND (L22 OR L34 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULA
T?))

FILE 'WPIDS'
232619 INDUC?
350311 REGULAT?
232831 ACTIVAT?
148164 MODULAT?
4534 L35 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L47 2 L11 AND (L23 OR L35 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULA
T?))

TOTAL FOR ALL FILES
L48 252 L12 AND (L24 OR L36 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULA
T?))

=> s l24 (8a)l36 (8a) (induc? or regulat? or activat? or modulat?)
FILE 'MEDLINE'
1467371 INDUC?
655894 REGULAT?
645922 ACTIVAT?
188652 MODULAT?
L49 581 L13 (8A)L25 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'SCISEARCH'
1356772 INDUC?
570603 REGULAT?
708279 ACTIVAT?
271427 MODULAT?
L50 388 L14 (8A)L26 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'LIFESCI'
380694 INDUC?
228629 REGULAT?
206735 ACTIVAT?
69294 MODULAT?
L51 244 L15 (8A)L27 (8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'BIOTECHDS'
37497 INDUC?

23837 REGULAT?
22547 ACTIVAT?
11056 MODULAT?
L52 8 L16(8A)L28(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'BIOSIS'
1374962 INDUC?
724837 REGULAT?
668480 ACTIVAT?
224051 MODULAT?
L53 648 L17(8A)L29(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'EMBASE'
1119846 INDUC?
544971 REGULAT?
566933 ACTIVAT?
181251 MODULAT?
L54 590 L18(8A)L30(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'HCAPLUS'
1815897 INDUC?
807692 REGULAT?
1099800 ACTIVAT?
280272 MODULAT?
L55 604 L19(8A)L31(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'NTIS'
67562 INDUC?
81873 REGULAT?
27784 ACTIVAT?
21158 MODULAT?
L56 3 L20(8A)L32(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'ESBIOBASE'
434023 INDUC?
321283 REGULAT?
260977 ACTIVAT?
90535 MODULAT?
L57 201 L21(8A)L33(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'BIOTECHNO'
335433 INDUC?
271996 REGULAT?
233622 ACTIVAT?
58358 MODULAT?
L58 351 L22(8A)L34(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'WPIDS'
232619 INDUC?
350311 REGULAT?
232831 ACTIVAT?
148164 MODULAT?
L59 7 L23(8A)L35(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

TOTAL FOR ALL FILES
L60 3625 L24(8A) L36(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

=> s 160 not ((phorbol or tetradecanoylphorbol) (2a)acetate)

FILE 'MEDLINE'
31629 PHORBOL
27213 TETRADECANOYLPHORBOL
88566 ACETATE
31003 (PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE
L61 35 L49 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE)

FILE 'SCISEARCH'
 30256 PHORBOL
 4623 TETRADECANOYLPHORBOL
 87765 ACETATE
L62 11461 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 87 L50 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'LIFESCI'
 11578 PHORBOL
 2340 TETRADECANOYLPHORBOL
 23830 ACETATE
L63 5681 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 49 L51 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'BIOTECHDS'
 297 PHORBOL
 49 TETRADECANOYLPHORBOL
 11452 ACETATE
L64 160 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 3 L52 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'BIOSIS'
 38371 PHORBOL
 9924 TETRADECANOYLPHORBOL
 115703 ACETATE
L65 21641 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 98 L53 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'EMBASE'
 37666 PHORBOL
 6108 TETRADECANOYLPHORBOL
 103030 ACETATE
L66 25514 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 45 L54 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'HCAPLUS'
 31626 PHORBOL
 6472 TETRADECANOYLPHORBOL
 465342 ACETATE
L67 16118 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 139 L55 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'NTIS'
 194 PHORBOL
 29 TETRADECANOYLPHORBOL
 3054 ACETATE
L68 80 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 0 L56 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'ESBIOBASE'
 11555 PHORBOL
 2090 TETRADECANOYLPHORBOL
 23735 ACETATE
L69 4814 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 57 L57 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'BIOTECHNO'
 18589 PHORBOL
 3245 TETRADECANOYLPHORBOL
 29320 ACETATE
L70 12354 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 37 L58 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'WPIDS'
335 PHORBOL
46 TETRADECANOYLPHORBOL
114024 ACETATE
158 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L71 4 L59 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

TOTAL FOR ALL FILES
L72 554 L60 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

=> s isopren? or lycopene# or caroten? or astaxanthin# or phytoene# or
isopentenyl(w)diphosphate or ipp

FILE 'MEDLINE'
9692 ISOPREN?
1238 LYCOPENE#
13199 CAROTEN?
286 ASTAXANTHIN#
323 PHYTOENE#
742 ISOPENTENYL
40154 DIPHOSPHATE
257 ISOPENTENYL(W) DIPHOSPHATE
402 IPP
L73 23322 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'SCISEARCH'
11397 ISOPREN?
1709 LYCOPENE#
19382 CAROTEN?
900 ASTAXANTHIN#
522 PHYTOENE#
1085 ISOPENTENYL
11198 DIPHOSPHATE
461 ISOPENTENYL(W) DIPHOSPHATE
1276 IPP
L74 32386 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'LIFESCI'
1999 ISOPREN?
210 LYCOPENE#
3377 CAROTEN?
302 ASTAXANTHIN#
214 PHYTOENE#
354 ISOPENTENYL
3061 DIPHOSPHATE
137 ISOPENTENYL(W) DIPHOSPHATE
135 IPP
L75 5615 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'BIOTECHDS'
278 ISOPREN?
115 LYCOPENE#
963 CAROTEN?
256 ASTAXANTHIN#
104 PHYTOENE#
163 ISOPENTENYL
628 DIPHOSPHATE
55 ISOPENTENYL(W) DIPHOSPHATE
59 IPP
L76 1298 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'BIOSIS'
13333 ISOPREN?
2179 LYCOPENE#
24451 CAROTEN?
1221 ASTAXANTHIN#
670 PHYTOENE#
1529 ISOPENTENYL
11874 DIPHOSPHATE
354 ISOPENTENYL(W) DIPHOSPHATE
483 IPP
L77 38918 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'EMBASE'
42482 ISOPREN?
1375 LYCOPENE#
11861 CAROTEN?
374 ASTAXANTHIN#
202 PHYTOENE#
540 ISOPENTENYL
37315 DIPHOSPHATE
269 ISOPENTENYL(W) DIPHOSPHATE
376 IPP
L78 54973 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'HCAPLUS'
53819 ISOPREN?
3777 LYCOPENE#
45680 CAROTEN?
2081 ASTAXANTHIN#
1140 PHYTOENE#
2230 ISOPENTENYL
30974 DIPHOSPHATE
504 ISOPENTENYL(W) DIPHOSPHATE
1540 IPP
L79 101863 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'NTIS'
322 ISOPREN?
18 LYCOPENE#
285 CAROTEN?
16 ASTAXANTHIN#
1 PHYTOENE#
5 ISOPENTENYL
191 DIPHOSPHATE
0 ISOPENTENYL(W) DIPHOSPHATE
207 IPP
L80 819 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'ESBIOBASE'
3194 ISOPREN?
840 LYCOPENE#
5766 CAROTEN?
359 ASTAXANTHIN#
204 PHYTOENE#
479 ISOPENTENYL
3547 DIPHOSPHATE
227 ISOPENTENYL(W) DIPHOSPHATE
200 IPP
L81 9321 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'BIOTECHNO'

4700 ISOPREN?
 317 LYCOPENE#
 2765 CAROTEN?
 242 ASTAXANTHIN#
 212 PHYTOENE#
 442 ISOPENTENYL
 13015 DIPHOSPHATE
 246 ISOPENTENYL (W) DIPHOSPHATE
 156 IPP

L82 7724 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
 OR ISOPENTENYL (W) DIPHOSPHATE OR IPP

FILE 'WPIDS'

14194 ISOPREN?
 413 LYCOPENE#
 3376 CAROTEN?
 373 ASTAXANTHIN#
 94 PHYTOENE#
 141 ISOPENTENYL
 1769 DIPHOSPHATE
 32 ISOPENTENYL (W) DIPHOSPHATE
 143 IPP

L83 17993 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
 OR ISOPENTENYL (W) DIPHOSPHATE OR IPP

TOTAL FOR ALL FILES

L84 294232 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
 OR ISOPENTENYL (W) DIPHOSPHATE OR IPP

=> s 184 and (l24 not ((phorbol or tetradecanoylphorbol) (2a)acetate))

FILE 'MEDLINE'

31629 PHORBOL
 27213 TETRADECANOYLPHORBOL
 88566 ACETATE
 31003 (PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE

L85 381 L73 AND (L13 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE))

FILE 'SCISEARCH'

30256 PHORBOL
 4623 TETRADECANOYLPHORBOL
 87765 ACETATE
 11461 (PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE

L86 633 L74 AND (L14 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE))

FILE 'LIFESCI'

11578 PHORBOL
 2340 TETRADECANOYLPHORBOL
 23830 ACETATE
 5681 (PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE

L87 127 L75 AND (L15 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE))

FILE 'BIOTECHDS'

297 PHORBOL
 49 TETRADECANOYLPHORBOL
 11452 ACETATE
 160 (PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE

L88 83 L76 AND (L16 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A)ACETATE))

FILE 'BIOSIS'

38371 PHORBOL
 9924 TETRADECANOYLPHORBOL
 115703 ACETATE

L89 21641 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
 730 L77 AND (L17 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'EMBASE'
 37666 PHORBOL
 6108 TETRADECANOYLPHORBOL
 103030 ACETATE
 25514 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L90 812 L78 AND (L18 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'HCAPLUS'
 31626 PHORBOL
 6472 TETRADECANOYLPHORBOL
 465342 ACETATE
 16118 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L91 4398 L79 AND (L19 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'NTIS'
 194 PHORBOL
 29 TETRADECANOYLPHORBOL
 3054 ACETATE
 80 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L92 8 L80 AND (L20 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'ESBIOBASE'
 11555 PHORBOL
 2090 TETRADECANOYLPHORBOL
 23735 ACETATE
 4814 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L93 221 L81 AND (L21 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'BIOTECHNO'
 18589 PHORBOL
 3245 TETRADECANOYLPHORBOL
 29320 ACETATE
 12354 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L94 183 L82 AND (L22 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'WPIDS'
 335 PHORBOL
 46 TETRADECANOYLPHORBOL
 114024 ACETATE
 158 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L95 1743 L83 AND (L23 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

TOTAL FOR ALL FILES
L96 9319 L84 AND (L24 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

=> s 184(5a) (synthes? or production# or mak?)

FILE 'MEDLINE'
 444699 SYNTHESES?
 320157 PRODUCTION#
 261923 MAK?
L97 977 L73 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'SCISEARCH'
 775604 SYNTHESES?
 506491 PRODUCTION#
 288197 MAK?
L98 1884 L74 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'LIFESCI'
 130707 SYNTHESES?

168183 PRODUCTION#
47447 MAK?
L99 633 L75 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'BIOTECHDS'
27951 SYNTHESES?
113369 PRODUCTION#
9680 MAK?
L100 546 L76 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'BIOSIS'
603479 SYNTHESES?
566838 PRODUCTION#
172506 MAK?
L101 2359 L77 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'EMBASE'
544152 SYNTHESES?
330306 PRODUCTION#
226968 MAK?
L102 888 L78 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'HCAPLUS'
1347627 SYNTHESES?
517420 PRODUCTION#
795340 PRODN
1102829 PRODUCTION#
(PRODUCTION# OR PRODN)
533706 MAK?
L103 5459 L79 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'NTIS'
41449 SYNTHESES?
130680 PRODUCTION#
116551 MAK?
L104 24 L80 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'ESBIOBASE'
160533 SYNTHESES?
164307 PRODUCTION#
56352 MAK?
L105 697 L81 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'BIOTECHNO'
170699 SYNTHESES?
149568 PRODUCTION#
34919 MAK?
L106 584 L82 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

FILE 'WPIDS'
113166 SYNTHESES?
327240 PRODUCTION#
473866 PRODN
782607 PRODUCTION#
(PRODUCTION# OR PRODN)
589353 MAK?
L107 1104 L83 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

TOTAL FOR ALL FILES
L108 15155 L84 (5A) (SYNTHESES? OR PRODUCTION# OR MAK?)

=> S 196 and 1108
FILE 'MEDLINE'
L109 43 L85 AND L97

FILE 'SCISEARCH'
L110 60 L86 AND L98

FILE 'LIFESCI'
L111 24 L87 AND L99

FILE 'BIOTECHDS'
L112 22 L88 AND L100

FILE 'BIOSIS'
L113 82 L89 AND L101

FILE 'EMBASE'
L114 41 L90 AND L102

FILE 'HCAPLUS'
L115 308 L91 AND L103

FILE 'NTIS'
L116 2 L92 AND L104

FILE 'ESBIOBASE'
L117 34 L93 AND L105

FILE 'BIOTECHNO'
L118 26 L94 AND L106

FILE 'WPIDS'
L119 52 L95 AND L107

TOTAL FOR ALL FILES
L120 694 L96 AND L108

=> s (148 or 172 or 1120) not 2001-2004/py

FILE 'MEDLINE'
1649476 2001-2004/PY
L121 91 (L37 OR L61 OR L109) NOT 2001-2004/PY

FILE 'SCISEARCH'
3072444 2001-2004/PY
L122 136 (L38 OR L62 OR L110) NOT 2001-2004/PY

FILE 'LIFESCI'
299805 2001-2004/PY
L123 89 (L39 OR L63 OR L111) NOT 2001-2004/PY

FILE 'BIOTECHDS'
63959 2001-2004/PY
L124 17 (L40 OR L64 OR L112) NOT 2001-2004/PY

FILE 'BIOSIS'
1625817 2001-2004/PY
L125 184 (L41 OR L65 OR L113) NOT 2001-2004/PY

FILE 'EMBASE'
1377246 2001-2004/PY
L126 102 (L42 OR L66 OR L114) NOT 2001-2004/PY

FILE 'HCAPLUS'
3121751 2001-2004/PY
L127 413 (L43 OR L67 OR L115) NOT 2001-2004/PY

FILE 'NTIS'

43998 2001-2004/PY
L128 1 (L44 OR L68 OR L116) NOT 2001-2004/PY

FILE 'ESBIOBASE'
880860 2001-2004/PY
L129 78 (L45 OR L69 OR L117) NOT 2001-2004/PY

FILE 'BIOTECHNO'
368875 2001-2004/PY
L130 75 (L46 OR L70 OR L118) NOT 2001-2004/PY

FILE 'WPIDS'
2955063 2001-2004/PY
L131 29 (L47 OR L71 OR L119) NOT 2001-2004/PY

TOTAL FOR ALL FILES
L132 1215 (L48 OR L72 OR L120) NOT 2001-2004/PY

=> dup rem l132
PROCESSING IS APPROXIMATELY 84% COMPLETE FOR L132
PROCESSING COMPLETED FOR L132
L133 558 DUP REM L132 (657 DUPLICATES REMOVED)

=> d tot

L133 ANSWER 1 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Manufacture of actinol useful for **synthesizing**
carotenoids by selective asymmetric reduction of levodione with
new Cellulomonas, Corynebacterium, Planococcus and Arthrobacter
microorganisms;
production of actinol by reacting Cellulomonas species,
Corynebacterium aquaticum, Planococcus akeanokoites or Arthrobacter
sulfureus with levodione

AU Shimizu S; Wada M
AN 2000-06238 BIOTECHDS
PI EP 982406 1 Mar 2000

L133 ANSWER 2 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The use of cholesterol-synthesis inhibitors for the reduction of the level
of cholesterol in poultry eggs
SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW
IN Kramer, Klaus; Baldenius, Kai-Uwe; Hoppe, Peter Paul
AN 2000:98040 HCPLUS
DN 132:136828

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 978236	A1	20000209	EP 1999-115698	19990809
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19835850	A1	20000210	DE 1998-19835850	19980807
US 6166067	A	20001226	US 1999-362062	19990728
JP 2000060435	A2	20000229	JP 1999-221602	19990804
CN 1258457	A	20000705	CN 1999-119696	19990807

L133 ANSWER 3 OF 558 MEDLINE on STN DUPLICATE 1
TI Superoxide production and reactive oxygen species signaling by endothelial
nitric-oxide synthase.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jun 2) 275 (22) 16899-903.
Journal code: 2985121R. ISSN: 0021-9258.
AU Wang W; Wang S; Yan L; Madara P; Del Pilar Cintron A; Wesley R A; Danner R
L
AN 2000287564 MEDLINE

- L133 ANSWER 4 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2
TI Raf induces NF-kappa B by membrane shuttle kinase MEKK1, a signaling pathway critical for transformation
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (25 APR 2000) Vol. 97, No. 9, pp. 4615-4620.
Publisher: NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON, DC 20418.
ISSN: 0027-8424.
AU Baumann B; Weber C K; Troppmair J; Whiteside S; Israel A; Rapp U R; Wirth T (Reprint)
AN 2000:340920 SCISEARCH
- L133 ANSWER 5 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 3
TI Effect of the solvent environment on the spectroscopic properties and dynamics of the lowest excited states of **carotenoids**
SO JOURNAL OF PHYSICAL CHEMISTRY B, (11 MAY 2000) Vol. 104, No. 18, pp. 4569-4577.
Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.
ISSN: 1089-5647.
AU Frank H A (Reprint); Bautista J A; Josue J; Pendon Z; Hiller R G; Sharples F P; Gosztola D; Wasielewski M R
AN 2000:376281 SCISEARCH
- L133 ANSWER 6 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Design and Synthesis of a Transferable Farnesyl Pyrophosphate Analogue to Ras by Protein Farnesyltransferase
SO Journal of Organic Chemistry (2000), 65(10), 3027-3033
CODEN: JOCEAH; ISSN: 0022-3263
AU Chehade, Kareem A. H.; Andres, Douglas A.; Morimoto, Hiromi; Spielmann, H. Peter
AN 2000:239015 HCPLUS
DN 133:17642
- L133 ANSWER 7 OF 558 MEDLINE on STN DUPLICATE 4
TI Simultaneous binding of two DNA duplexes to the NtrC-enhancer complex studied by two-color fluorescence cross-correlation spectroscopy.
SO BIOCHEMISTRY, (2000 Mar 7) 39 (9) 2131-9.
Journal code: 0370623. ISSN: 0006-2960.
AU Rippe K
AN 2000160489 MEDLINE
- L133 ANSWER 8 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Matrix metalloproteinase 9 promoter activity is induced coincident with invasion during tumor progression
SO American Journal of Pathology (2000), 157(6), 1777-1783
CODEN: AJPAA4; ISSN: 0002-9440
AU Kupferman, Michael E.; Fini, M. Elizabeth; Muller, William J.; Weber, Randal; Cheng, Yi; Muschel, Ruth J.
AN 2001:14676 HCPLUS
DN 134:324366
- L133 ANSWER 9 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Structure-Activity Relationships of (1'S)-1'-Acetoxychavicol Acetate, a Major Constituent of a Southeast Asian Condiment Plant Languas galanga, on the Inhibition of Tumor-Promoter-Induced Epstein-Barr Virus Activation
SO Journal of Agricultural and Food Chemistry (2000), 48(5), 1518-1523
CODEN: JAFCAU; ISSN: 0021-8561
AU Murakami, Akira; Toyota, Kazuo; Ohura, Shin; Koshimizu, Koichi; Ohigashi, Hajime
AN 2000:238648 HCPLUS
DN 133:37710
- L133 ANSWER 10 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Mucosa-specific targets for regulation of IFN- γ expression: lamina

propria T cells use different cis-elements than peripheral blood T cells to regulate transactivation of IFN- γ expression
SO Journal of Immunology (2000), 164(3), 1399-1407
CODEN: JOIMA3; ISSN: 0022-1767
AU Gonsky, Rivkah; Deem, Richard L.; Bream, Jay H.; Lee, Doo Han; Young, Howard A.; Targan, Stephan R.
AN 2000:82590 HCAPLUS
DN 132:221193

L133 ANSWER 11 OF 558 MEDLINE on STN DUPLICATE 5
TI Changes in **isoprenoid** lipid **synthesis** by gemfibrozil and clofibrate acid in rat hepatocytes.
SO BIOCHEMICAL PHARMACOLOGY, (2000 May 15) 59 (10) 1203-10.
Journal code: 0101032. ISSN: 0006-2952.
AU Hashimoto F; Taira S; Hayashi H
AN 20000202023 MEDLINE

L133 ANSWER 12 OF 558 MEDLINE on STN DUPLICATE 6
TI Biosynthesis of **carotenoids** in plastids of plants.
SO BIOCHEMISTRY, (2000 Oct) 65 (10) 1113-28. Ref: 82
Journal code: 0376536. ISSN: 0006-2979.
AU Ladygin V G
AN 2001090049 MEDLINE

L133 ANSWER 13 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Forskolin studies
SO Tetrahedron (2000), 56(8), 1081-1095
CODEN: TETRAB; ISSN: 0040-4020
AU Behnke, Dirk; Hennig, Lothar; Findeisen, Matthias; Welzel, Peter; Muller, Dietrich; Thormann, Michael; Hofmann, Hans-Jorg
AN 2000:147117 HCAPLUS
DN 132:279368

L133 ANSWER 14 OF 558 MEDLINE on STN DUPLICATE 7
TI Activation of osteocalcin transcription involves interaction of protein kinase A- and protein kinase C-dependent pathways.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 14) 275 (2) 999-1006.
Journal code: 2985121R. ISSN: 0021-9258.
AU Boguslawski G; Hale L V; Yu X P; Miles R R; Onyia J E; Santerre R F; Chandrasekhar S
AN 2000092866 MEDLINE

L133 ANSWER 15 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Allele-specific regulation of matrix metalloproteinase-12 gene activity is associated with coronary artery luminal dimensions in diabetic patients with manifest coronary artery disease
SO Circulation Research (2000), 86(9), 998-1003
CODEN: CIRUAL; ISSN: 0009-7330
AU Jormsjo, Sofia; Ye, Shu; Moritz, Joseffa; Walter, Dirk H.; Dimmeler, Stefanie; Zeiher, Andreas M.; Henney, Adriano; Hamsten, Anders; Eriksson, Per
AN 2000:346530 HCAPLUS
DN 133:87647

L133 ANSWER 16 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 8
TI Biosynthesis of **carotenoids** in the chloroplasts of algae and higher plants
SO RUSSIAN JOURNAL OF PLANT PHYSIOLOGY, (NOV-DEC 2000) Vol. 47, No. 6, pp. 796-814.
Publisher: MAIK NAUKA/INTERPERIODICA, C/O KLUWER ACADEMIC-PLENUM PUBLISHERS, 233 SPRING ST, NEW YORK, NY 10013-1578.
ISSN: 1021-4437.
AU Ladygin V G (Reprint)
AN 2000:904268 SCISEARCH

- L133 ANSWER 17 OF 558 MEDLINE on STN DUPLICATE 9
TI Metabolism of farnesyl diphosphate in tobacco BY-2 cells treated with squalestatin.
SO BIOCHEMICAL SOCIETY TRANSACTIONS, (2000 Dec) 28 (6) 794-6.
Journal code: 7506897. ISSN: 0300-5127.
AU Hartmann M A; Wentzinger L; Hemmerlin A; Bach T J
AN 2001301221 MEDLINE
- L133 ANSWER 18 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Molecular regulation of granulocyte macrophage colony-stimulating factor in human lung epithelial cells by interleukin (IL)-1 β , IL-4, and IL-13 involves both transcriptional and post-transcriptional mechanisms.
SO American Journal of Respiratory Cell and Molecular Biology, (May, 2000) Vol. 22, No. 5, pp. 582-589. print.
CODEN: AJRBEL. ISSN: 1044-1549.
AU Bergmann, Martin; Barnes, Peter J.; Newton, Robert [Reprint author]
AN 2000:321497 BIOSIS
- L133 ANSWER 19 OF 558 MEDLINE on STN DUPLICATE 10
TI Improving **lycopene production** in Escherichia coli by engineering metabolic control.
SO NATURE BIOTECHNOLOGY, (2000 May) 18 (5) 533-7.
Journal code: 9604648. ISSN: 1087-0156.
AU Farmer W R; Liao J C
AN 2000264176 MEDLINE
- L133 ANSWER 20 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Ethylene and glycosidase promotion in GA3- and IAA-treated tomato fruit (*Lycopersicon esculentum* Mill.)
SO Journal of Plant Growth Regulation (2000), 19(3), 359-368
CODEN: JPPGRDI; ISSN: 0721-7595
AU Sozzi, G. O.; Trinchero, G. D.; Fraschina, A. A.
AN 2001:286480 HCAPLUS
DN 135:43583
- L133 ANSWER 21 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 11
TI Emission of volatiles from brown boronia flowers: Some comparative observations
SO ANNALS OF BOTANY, (AUG 2000) Vol. 86, No. 2, pp. 347-354.
Publisher: ACADEMIC PRESS LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND.
ISSN: 0305-7364.
AU MacTavish H S (Reprint); Davies N W; Menary R C
AN 2000:596461 SCISEARCH
- L133 ANSWER 22 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 12
TI The effect of PKC activation on the survival of rat retinal ganglion cells in culture
SO BRAIN RESEARCH, (24 JAN 2000) Vol. 853, No. 2, pp. 338-343.
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.
ISSN: 0006-8993.
AU dos Santos A A; de Araujo E G (Reprint)
AN 2000:124969 SCISEARCH
- L133 ANSWER 23 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI The transcriptional mechanisms of retinoid-induced tissue factor suppression in leukemic cell lines.
SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 257a. print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology. San Francisco, California, USA. December 01-05, 2000. American Society of Hematology.

- CODEN: BLOOAW. ISSN: 0006-4971.
AU Tenno, Taavo [Reprint author]; Oberg, Fredrik; Nilsson, Kenneth; Siegbahn, Agneta [Reprint author]
AN 2001:311579 BIOSIS
- L133 ANSWER 24 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI PKC and ERK1/2 regulate amylase promoter activity during differentiation of a salivary gland cell line
SO Journal of Cellular Physiology (2000), 185(2), 215-225
CODEN: JCLLAX; ISSN: 0021-9541
AU Jung, Dale W.; Hecht, Dalit; Ho, Susan W.; O'Connell, Brian C.; Kleinman, Hynda K.; Hoffman, Matthew P.
AN 2000:708325 HCPLUS
DN 133:306006
- L133 ANSWER 25 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 13
TI Fosmidomycin as an inhibitor of the non-mevalonate terpenoid pathway depresses **synthesis** of secondary **carotenoids** in flagellates of the green alga *Haematococcus pluvialis*
SO JOURNAL OF APPLIED BOTANY-ANGEWANDTE BOTANIKA, (SEP 2000) Vol. 74, No. 3-4, pp. 137-140.
Publisher: BLACKWELL WISSENSCHAFTS-VERLAG GMBH, KURFURSTENDAMM 57, D-10707 BERLIN, GERMANY.
ISSN: 0949-5460.
AU Hagen C (Reprint); Grunewald K
AN 2000:716267 SCISEARCH
- L133 ANSWER 26 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI Evaluation of antimutagenic effect of todralazine in cultured lymphocytes
SO MUTAGENESIS, (MAR 2000) Vol. 15, No. 2, pp. 137-141.
Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND.
ISSN: 0267-8357.
AU Gasiorowski K (Reprint); Brokos B
AN 2000:244231 SCISEARCH
- L133 ANSWER 27 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 14
TI Phorbols: Chemical synthesis and chemical biology
SO YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN, (JAN 2000) Vol. 120, No. 1, pp. 76-90.
Publisher: PHARMACEUTICAL SOC JAPAN, 2-12-15-201 SHIBUYA, SHIBUYA-KU, TOKYO 150, JAPAN.
ISSN: 0031-6903.
AU Shibasaki M (Reprint)
AN 2000:36917 SCISEARCH
- L133 ANSWER 28 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 15
TI Roseinatronobacter thiooxidans gen. nov., sp. nov., a new alkaliphilic aerobic bacteriochlorophyll a - containing bacterium isolated from a soda lake
SO MICROBIOLOGY, (JAN-FEB 2000) Vol. 69, No. 1, pp. 75-82.
Publisher: MAIK NAUKA/INTERPERIODICA, C/O PLENUM/CONSULTANTS BUREAU 233 SPRING ST, NEW YORK, NY 10013.
ISSN: 0026-2617.
AU Sorokin D Y (Reprint); Tourova T P; Kuznetsov B B; Bryantseva I A; Gorlenko V M
AN 2000:220386 SCISEARCH
- L133 ANSWER 29 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 16
TI On the role of hydroxyl radical and the effect of tetrrandrine on nuclear factor-kappa B activation by phorbol 12-myristate 13-acetate

- SO ANNALS OF CLINICAL AND LABORATORY SCIENCE, (JAN 2000) Vol. 30, No. 1, pp. 65-71.
Publisher: INST CLINICAL SCIENCE INC, 1833 DELANCEY PLACE, PHILADELPHIA, PA 19103.
ISSN: 0091-7370.
- AU Ye J P; Ding M; Zhang X Y; Rojanasakul Y; Shi X L (Reprint)
AN 2000:98173 SCISEARCH
- L133 ANSWER 30 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 17
- TI Separation of chlorophylls and **carotenoids** from marine phytoplankton: a new HPLC method using a reversed phase C-8 column and pyridine-containing mobile phases
- SO MARINE ECOLOGY-PROGRESS SERIES, (APR 2000) Vol. 195, pp. 29-45.
Publisher: INTER-RESEARCH, NORDBUNTE 23, D-21385 OLDENDORF LUHE, GERMANY.
ISSN: 0171-8630.
- AU Zapata M (Reprint); Rodriguez F; Garrido J L
AN 2000:340849 SCISEARCH
- L133 ANSWER 31 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
- TI Application and synthesis of chloro(halo)isopentenyl **acetate**
- SO Shanghai Huagong (2000), 25(6), 11-14
CODEN: SHAHE2; ISSN: 1004-017X
- AU Chen, Yu; Xia, Shunwei; Fu, Jiansong
AN 2000:319928 HCPLUS
DN 133:176941
- L133 ANSWER 32 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 18
- TI Screening for the in vitro anti-tumor-promoting activities of edible plants from Malaysia
- SO BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY, (JAN 2000) Vol. 64, No. 1, pp. 9-16.
Publisher: JAPAN SOC BIOSCI BIOTECHN AGROCHEM, JAPAN ACAD SOC CTR BLDG, 2-4-6 YAYOI BUNKYO-KU, TOKYO 113, JAPAN.
ISSN: 0916-8451.
- AU Murakami A; Ali A M; MatSalleh K; Koshimizu K; Ohigashi H (Reprint)
AN 2000:124890 SCISEARCH
- L133 ANSWER 33 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 19
- TI Molecular mechanisms of dissociative glucocorticoid activity.
- SO European Journal of Clinical Investigation, Supplement, (2000) 30/3 (6-9).
Refs: 35
ISSN: 0960-135X CODEN: EJCIEB
- AU Bamberger C.M.; Schulte H.M.
AN 2001067574 EMBASE
- L133 ANSWER 34 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- TI Process for **making** metabolites of **lycopene**.
- SO Official Gazette of the United States Patent and Trademark Office Patents, (Dec. 28, 1999) Vol. 1229, No. 4. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
- AU Pfander, Hanspeter [Inventor, Reprint author]; Traber, Bruno [Inventor]
AN 2000:301644 BIOSIS
- L133 ANSWER 35 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
- TI Production of paintable/bondable polymeric articles by treatment with oxidizing agents
- SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2
- IN Beholz, Lars Guenter
AN 1999:626234 HCPLUS
DN 131:244247

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9948933	A1	19990930	WO 1999-US6270	19990324
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6077913	A	20000620	US 1998-48609	19980326
	US 6100343	A	20000808	US 1998-196608	19981103
	CA 2325732	AA	19990930	CA 1999-2325732	19990324
	AU 9931981	A1	19991018	AU 1999-31981	19990324

L133 ANSWER 36 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Method for accelerated uptake of **carotenoid** mixtures into serum and tissues
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 IN Tronnier, Hagen
 AN 1999:626018 HCAPLUS
 DN 131:248057

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9948468	A1	19990930	WO 1999-EP1661	19990313
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19812777	A1	19991007	DE 1998-19812777	19980324

L133 ANSWER 37 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI The role of the Smad3 protein in phorbol ester-induced promoter expression
 SO Journal of Biological Chemistry (1999), 274(52), 36987-36994
 CODEN: JBCHA3; ISSN: 0021-9258
 AU Biggs, Joseph R.; Kraft, Andrew S.
 AN 2000:9484 HCAPLUS
 DN 132:133460

L133 ANSWER 38 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Regio- and stereoselective synthesis of N-H aziridines by N-N bond reduction of N-quinazolinyl aziridines
 SO Tetrahedron (1999), 55(32), 9669-9686
 CODEN: TETRAB; ISSN: 0040-4020
 AU Koohang, Ali; Stanchina, Corey L.; Coates, Robert M.
 AN 1999:512063 HCAPLUS
 DN 131:271853

L133 ANSWER 39 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 20
 TI Expression of GUT1, which encodes glycerol kinase in *Saccharomyces cerevisiae*, is controlled by the positive regulators Adrlp, Ino2p and Ino4p and the negative regulator Opi1p in a carbon source-dependent fashion
 SO NUCLEIC ACIDS RESEARCH, (15 NOV 1999) Vol. 27, No. 22, pp. 4391-4398.
 Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND.
 ISSN: 0305-1048.
 AU Grauslund M; Lopes J M; Ronnow B (Reprint)
 AN 1999:928548 SCISEARCH

L133 ANSWER 40 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 21
 TI Synthesis and in vitro biological activity of 4 α -(2-propenyl)-

- 5 α -cholest-24-en-3 α ,12 α -diol, a 12 α -hydroxyl analog of 4 α -(2-propenyl)-5 α -cholest-24-en-3 α -ol: The latter is a potent activator of the low-density lipoprotein receptor promoter.
- SO Steroids, (1999) 64/10 (735-741).
Refs: 31
ISSN: 0039-128X CODEN: STEDAM
- AU Lin H.-S.; Rampersaud A.A.; Beavers L.S.; McClure D.B.; Gardner A.J.; Eacho P.I.; Foxworthy P.S.; Gadski R.A.
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- L133 ANSWER 41 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 22
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PATENT NO. KIND DATE APPLICATION NO. DATE
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PI DE 19525282 A1 19970102 DE 1995-19525282 19950629

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L133 ANSWER 84 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 43
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ISSN: 0021-9258.

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DN 127:186586

L133 ANSWER 88 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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CS D.J. Watters, Queensland Cancer Fund Research Unit, Queensland Inst. of Med. Research, P.O. Royal Brisbane Hospital, Herston, Brisbane, QLD 4029, Australia.
E-mail: diannew@qimr.edu.au

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DT Journal; Article
CY United States
LA English
SL English

L133 ANSWER 91 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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L133 ANSWER 92 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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- ISSN: 0904-213X.
- AU HAUGAN J A (Reprint); LIAAENJENSEN S
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- L133 ANSWER 150 OF 558 MEDLINE on STN DUPLICATE 78
- TI The role of uridylyltransferase in the control of *Klebsiella pneumoniae* nif gene regulation.
- SO Molecular & general genetics : MGG, (1995 Apr 20) 247 (2) 189-98.
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- AU Edwards R; Merrick M
- AN 95272528 MEDLINE

L133 ANSWER 151 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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PHOSPHATIDYLCHOLINE HYDROLYSIS
SO FEBS LETTERS, (04 SEP 1995) Vol. 371, No. 2, pp. 185-187.
ISSN: 0014-5793.
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L133 ANSWER 152 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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preprotachykinin-A promoter
SO Neuroscience Letters (1995), 191(3), 185-8
CODEN: NELED5; ISSN: 0304-3940
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P.
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DN 123:104207

L133 ANSWER 153 OF 558 MEDLINE on STN DUPLICATE 80
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on rat atria contractility.
SO ACTA PHYSIOLOGICA, PHARMACOLOGICA ET THERAPEUTICA LATINOAMERICANA, (1995)
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Journal code: 9200300. ISSN: 0327-6309.
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AN 96139169 MEDLINE

L133 ANSWER 154 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
81
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THE DIMORPHIC FUNGUS MUCOR-ROUXII
SO CURRENT MICROBIOLOGY, (SEP 1995) Vol. 31, No. 3, pp. 141-145.
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AN 95:518533 SCISEARCH

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TI A sequence-induced superhelical DNA segment serves as transcriptional
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Journal code: 2985088R. ISSN: 0022-2836.
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SO Journal of Molecular Biology, (1995) 246/6 (35-42).
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L133 ANSWER 157 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Phaffia strains transformed with genes encoding heterologous protein or
carotenoid;
Phaffia rhodozyma transformation; potential in recombinant protein and
carotenoid e.g. **astaxanthin**, zeaxanthin,
cantalaxanthin and **beta-carotene production**
AN 1994-06988 BIOTECHDS
PI WO 9406918 31 Mar 1994

L133 ANSWER 158 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI **Synthesis of β- carotene**
SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 10 pp.
CODEN: CNXXEV
IN Zheng, Qingquan
AN 1995:874825 HCAPLUS
DN 123:256440
PATENT NO. KIND DATE APPLICATION NO. DATE

PI CN 1090271 A 19940803 CN 1993-117490 19930920

L133 ANSWER 159 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Complex of biologically active lipids **production** - with increase in
 carotenoid content by using a medium containing sodium **acetate**
 and vitamin B1.
PI RU 2022019 C1 19941030 (199526)* 4p C12P007-64
IN FUNTIKOVA, N S; KONOVA, I V; TORLANOVA, B D

L133 ANSWER 160 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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TI THE PROTEIN-KINASE-C ACTIVATOR, PHORBOL ESTER, COOPERATES WITH THE
 WILD-TYPE P53 SPECIES OF RAS-TRANSFORMED EMBRYO FIBROBLASTS GROWTH ARREST
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (25 NOV 1994) Vol. 269, No. 47, pp.
 29579-29587.
 ISSN: 0021-9258.
AU DELPHIN C; BAUDIER J (Reprint)
AN 94:745866 SCISEARCH

L133 ANSWER 161 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
85
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 (ENA-78) GENE
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L133 ANSWER 162 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 protocol for the **synthesis** of **isoprenoid** aldehydes
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CODEN: TETRAB; ISSN: 0040-4020
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AN 1994:605716 HCAPLUS
DN 121:205716

L133 ANSWER 163 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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 RECONSTITUTION OF THE SIGNALING PATHWAY IN-VITRO
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L133 ANSWER 164 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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CODEN: MROBEO; ISSN: 1350-0872
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AN 1994:597376 HCAPLUS
DN 121:197376

- L133 ANSWER 165 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
87
- TI APPEARANCE OF DEPOLARIZATION-INDUCED AND MAITOTOXIN-INDUCED [CA2+] (I)
ELEVATION IN SINGLE LAN-1 HUMAN NEUROBLASTOMA-CELLS ON EXPOSURE TO
RETINOIC ACID
- SO JOURNAL OF NEUROCHEMISTRY, (NOV 1994) Vol. 63, No. 5, pp. 1900-1907.
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phorbol-12-myristate-13-acetate in NIH3T3 cells
- SO Carcinogenesis (1994), 15(8), 1717-21
CODEN: CRNGDP; ISSN: 0143-3334
- AU Lin, Jen-Kun; Shih, Cheng-An
- AN 1994:570020 HCPLUS
- DN 121:170020
- L133 ANSWER 167 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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tumor virus promoter in mammary carcinoma cells by activation of protein
kinase C
- SO Biochemical and Biophysical Research Communications (1994), 198(3), 1183-8
CODEN: BBRCA9; ISSN: 0006-291X
- AU Nordeen, Steven K.
- AN 1994:183250 HCPLUS
- DN 120:183250
- L133 ANSWER 168 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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- SO Hwahak Sekye (1994), 34(11), 1056-9
CODEN: HWSEEX; ISSN: 1225-004X
- AU Shin, G. H.
- AN 1995:556661 HCPLUS
- DN 123:51769
- L133 ANSWER 169 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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OF FLAGELLAR EXPRESSION IN ESCHERICHIA-COLI
- SO MOLECULAR MICROBIOLOGY, (JUN 1994) Vol. 12, No. 6, pp. 973-984.
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- AU PRUSS B M; WOLFE A J (Reprint)
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investigations on structure and function of **carotenoproteins** at
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- L133 ANSWER 171 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
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INDUCTION BY SERUM AND PHORBOL 12-MYRISTATE 13-ACETATE
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L133 ANSWER 172 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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TI FORMATION OF CHLOROPLAST **ISOPRENOIDS** FROM PYRUVATE AND
ACETATE BY CHLOROPLASTS FROM YOUNG SPINACH PLANTS - EVIDENCE FOR A
MEVALONATE PATHWAY IN IMMATURE CHLOROPLASTS

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L133 ANSWER 173 OF 558 MEDLINE on STN DUPLICATE 90

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SO Molecular & general genetics : MGG, (1994 Jun 15) 243 (6) 654-9.
Journal code: 0125036. ISSN: 0026-8925.

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L133 ANSWER 174 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

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TYPE DEVELOPED BY SALT STRESS FROM A C-3-PLANT TYPE MAIZE - A SCREENING
FOR MALATE AS SUBSTRATE FOR FATTY-ACID SYNTHESIS IN CHLOROPLASTS

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ISSN: 0176-1617.

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L133 ANSWER 175 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

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human topoisomerase II α gene promoter

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CODEN: BBRCA9; ISSN: 0006-291X

AU Loflin, Paul T.; Hochhauser, Daniel; Hickson, Ian D.; Morales, Fernando;
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AN 1994:402253 HCPLUS

DN 121:2253

L133 ANSWER 176 OF 558 MEDLINE on STN DUPLICATE 91

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AN 94166760 MEDLINE

L133 ANSWER 177 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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IN THE PLANT AND ANIMAL

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AN 94:267955 SCISEARCH

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cooperation between Chinese hamster V79 cells.

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- L133 ANSWER 181 OF 558 MEDLINE on STN DUPLICATE 96
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- L133 ANSWER 183 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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DN 125:61357
- L133 ANSWER 184 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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from Haematococcus pluvialis
AN 1993-08215 BIOTECHDS
PI JP 05068585 23 Mar 1993
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L133 ANSWER 187 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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AN 1994:70593 HCPLUS
DN 120:70593

L133 ANSWER 188 OF 558 MEDLINE on STN DUPLICATE 99
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L133 ANSWER 190 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 100
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L133 ANSWER 191 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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AN 1993:408987 HCPLUS
DN 119:8987

L133 ANSWER 192 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 101
TI 1'-ACETOXYCHAVICOL **ACETATE** AS A POTENT INHIBITOR OF TUMOR **PROMOTER-INDUCED EPSTEIN-BARR-VIRUS ACTIVATION**
FROM LANGUAS-GALANGA, A TRADITIONAL THAI CONDIMENT
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L133 ANSWER 193 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
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Phaffia rhodozyma
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CODEN: BILED3; ISSN: 0141-5492
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AN 1994:6851 HCPLUS
DN 120:6851
- L133 ANSWER 195 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 102
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SO MOLECULAR ENDOCRINOLOGY, (JUL 1993) Vol. 7, No. 7, pp. 915-923.
ISSN: 0888-8809.
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AN 93:459578 SCISEARCH
- L133 ANSWER 196 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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Haematococcus pluvialis;
astaxanthin production
SO Appl. Environ. Microbiol.; (1993) 59, 3, 867-73
CODEN: AEMIDF
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AN 1993-03941 BIOTECHDS
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ISSN: 0143-3334.
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AN 93:240053 SCISEARCH
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ISSN: 0176-1617.
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AN 94:2910 SCISEARCH
- L133 ANSWER 199 OF 558 MEDLINE on STN DUPLICATE 104
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Journal code: 0125036. ISSN: 0026-8925.
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- L133 ANSWER 200 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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SO Microbial Utilization of Renewable Resources (1993), Volume Date 1992, 8, 339-49
CODEN: MURRE6
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AN 1994:101500 HCAPLUS
DN 120:101500

L133 ANSWER 201 OF 558 MEDLINE on STN DUPLICATE 105
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SO HEPATOLOGY, (1993 Feb) 17 (2) 266-72.
Journal code: 8302946. ISSN: 0270-9139.
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L133 ANSWER 202 OF 558 MEDLINE on STN DUPLICATE 106
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Journal code: 2985120R. ISSN: 0021-9193.
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L133 ANSWER 203 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 107
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ISSN: 0031-9422.
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AN 93:585759 SCISEARCH

L133 ANSWER 204 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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SO (1992) 60 pp. Avail.: Univ. Microfilms Int., Order No. DA9323839
From: Diss. Abstr. Int. B 1993, 54(4), 1780-1
AU Chaung, Wenren
AN 1994:155719 HCAPLUS
DN 120:155719

L133 ANSWER 205 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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using a vector comprising the glutamine-synthetase promoter-2 of Escherichia coli and ammonium and/or glutamine as limiting N-source
AN 1992-11724 BIOTECHDS
PI DE 4102594 30 Jul 1992

L133 ANSWER 206 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Adhesive compsn. for fixing shoe-soles - contains polychloroprene, specified resins, silica, zinc and magnesium oxide(s), oligo-piperylene, di tert. butyl-para-cresol and organic solvent for improved strength and stability on storage.
PI SU 1754753 A1 19920815 (199331)* 4p C09J111-00
IN IRKHIN, B L; PANTUKH, B I; TUKTAROVA, L A

L133 ANSWER 207 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Reagent for treatment of water-based drilling solution - contains calcium acetate, obtd. as waste from thermal wood decomposition, magnesium chloride, by-product from di methyl dioxane production and water.
PI SU 1745750 A1 19920707 (199326)* 4p C09K007-02
IN ANGELOPULO, O K; AVAKOV, V E; BALABA, V I

L133 ANSWER 208 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Adhesive compsn. for adhesive tape production - includes synthetic isoprene rubber, glycerine ether of hydrogenated pine colophony and tetra ethoxy silane.
PI SU 1707043 A1 19920123 (199313)* 3p C09J007-02

IN ALEKSEENKO, A I; BUREEV, YU A; PARFENENKO, I D

L133 ANSWER 209 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Glycerol derivs. useful as intermediates to **isoprenoid** phospholipid(s) - obtd. e.g. from chain **isoprenoid** cpds., by reaction in presence of di isopropyl ethylamine methylene chloride with di phenyl phospho chloride.

PI JP 04257595 A 19920911 (199243)* 7p C07C009-09
US 5221796 A 19930622 (199326) 14p C07F009-02
JP 2665630 B2 19971022 (199747) 7p C07F009-09

IN MORI, H; NISHIKAWA, N

L133 ANSWER 210 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI New long chain glycerol derivs. - useful as intermediates for biocompatible **isoprenoid** phospholipid(s).

PI JP 04257544 A 19920911 (199243)* 5p C07C069-30
US 5221796 A 19930622 (199326) 14p C07F009-02
JP 2670908 B2 19971029 (199748) 6p C07C069-30

IN MORI, H; NISHIKAWA, N

L133 ANSWER 211 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI A role for the acidic trimer repeat region of transcription factor σ54 in setting the rate and temperature dependence of promoter melting in vivo

SO Journal of Biological Chemistry (1992), 267(34), 24762-8

CODEN: JBCHA3; ISSN: 0021-9258

AU Wong, Caine; Gralla, Jay D.

AN 1993:487648 HCPLUS

DN 119:87648

L133 ANSWER 212 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Interaction of AP-1-, AP-2-, and Sp1-like proteins with two distinct sites in the upstream regulatory region of the plasminogen activator inhibitor-1 gene mediates the phorbol 12-myristate 13-acetate response

SO Journal of Biological Chemistry (1992), 267(21), 15086-91

CODEN: JBCHA3; ISSN: 0021-9258

AU Descheemaeker, Koen A.; Wyns, Sabine; Nelles, Luc; Auwerx, Johan; Ny, Tor; Collen, Desire

AN 1992:544690 HCPLUS

DN 117:144690

L133 ANSWER 213 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI SQUALESTATIN-1, A POTENT INHIBITOR OF SQUALENE SYNTHASE, WHICH LOWERS SERUM-CHOLESTEROL INVIVO

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (15 JUN 1992) Vol. 267, No. 17, pp. 11705-11708.

ISSN: 0021-9258.

AU BAXTER A; FITZGERALD B J; HUTSON J L; MCCARTHY A D (Reprint); MOTTERAM J M; ROSS B C; SAPRA M; SNOWDEN M A; WATSON N S; WILLIAMS R J; WRIGHT C

AN 92:371596 SCISEARCH

L133 ANSWER 214 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Phosphorylation of nitrogen regulator I of Escherichia coli induces strong cooperative binding to DNA essential for activation of transcription. [Erratum to document cited in CA117(7):64200g]

SO Proceedings of the National Academy of Sciences of the United States of America (1992), 89(18), 8856

CODEN: PNASA6; ISSN: 0027-8424

AU Weiss, Verena; Claverie-Martin, Felix; Magasanik, Boris

AN 1993:1903 HCPLUS

DN 118:1903

L133 ANSWER 215 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Regulated expression of the human acetylated low density lipoprotein

- SO receptor gene and isolation of promoter sequences
SO Proceedings of the National Academy of Sciences of the United States of America (1992), 89(17), 8102-6
CODEN: PNASA6; ISSN: 0027-8424
AU Moulton, Karen S.; Wu, Hong; Barnett, Joellen; Parthasarathy, Sampath; Glass, Christopher K.
AN 1992:627626 HCPLUS
DN 117:227626
- L133 ANSWER 216 OF 558 MEDLINE on STN DUPLICATE 109
TI Role of phosphorylated metabolic intermediates in the regulation of glutamine synthetase synthesis in *Escherichia coli*.
SO JOURNAL OF BACTERIOLOGY, (1992 Oct) 174 (19) 6061-70.
Journal code: 2985120R. ISSN: 0021-9193.
AU Feng J; Atkinson M R; McCleary W; Stock J B; Wanner B L; Ninfa A J
AN 93015643 MEDLINE
- L133 ANSWER 217 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Phosphorylation of nitrogen regulator I or *Escherichia coli* induces strong cooperative binding to DNA essential for activation of transcription
SO Proceedings of the National Academy of Sciences of the United States of America (1992), 89(11), 5088-92
CODEN: PNASA6; ISSN: 0027-8424
AU Weiss, Verena; Claverie-Martin, Felix; Magasanik, Boris
AN 1992:464200 HCPLUS
DN 117:64200
- L133 ANSWER 218 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 110
TI INDUCTION OF C-JUN PROTOONCOGENE EXPRESSION AND TRANSCRIPTION FACTOR AP-1 ACTIVITY BY THE POLYOMA-VIRUS MIDDLE-SIZED TUMOR-ANTIGEN
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (01 JUN 1992) Vol. 89, No. 11, pp. 4972-4976.
ISSN: 0027-8424.
AU SCHONTHAL A (Reprint); SRINIVAS S; ECKHART W
AN 92:348706 SCISEARCH
- L133 ANSWER 219 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 111
TI PHOSPHORYLATION OF TRANSLATION INITIATION-FACTOR EIF-4E IS INDUCED IN A RAS-DEPENDENT MANNER DURING NERVE GROWTH FACTOR-MEDIATED PC12 CELL-DIFFERENTIATION
SO MOLECULAR AND CELLULAR BIOLOGY, (MAR 1992) Vol. 12, No. 3, pp. 1239-1247.
ISSN: 0270-7306.
AU FREDERICKSON R M; MUSHYNSKI W E; SONENBERG N (Reprint)
AN 92:127362 SCISEARCH
- L133 ANSWER 220 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Sugars, fatty acids, and photosynthetic gene expression
SO Res. Photosynth., Proc. Int. Congr. Photosynth., 9th (1992), Volume 4, 753-60. Editor(s): Murata, Norio. Publisher: Kluwer, Dordrecht, Neth.
CODEN: 59IZA5
AU Sheen, Jen; Huang, Hai; Schaffner, Anton R.; Leon, Patricia; Jang, Jyan Chyun
AN 1993:646026 HCPLUS
DN 119:246026
- L133 ANSWER 221 OF 558 MEDLINE on STN DUPLICATE 112
TI DNA supercoiling response of the sigma 54-dependent *Klebsiella pneumoniae* nifL promoter in vitro.
SO JOURNAL OF MOLECULAR BIOLOGY, (1992 Jun 5) 225 (3) 591-607.
Journal code: 2985088R. ISSN: 0022-2836.
AU Whitehall S; Austin S; Dixon R
AN 92292148 MEDLINE

L133 ANSWER 222 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI A 5'-flanking region of the bovine tyrosine hydroxylase gene is involved in cell-specific expression, activation of gene transcription by phorbol ester, and transactivation by c-Fos and c-Jun
SO Molecular and Cellular Neuroscience (1992), 3(5), 383-94
CODEN: MOCNED; ISSN: 1044-7431
AU Goc, A.; Norman, S. A.; Puchacz, E.; Stachowiak, E. K.; Lukas, R. J.; Stachowiak, M. K.
AN 1992:646551 HCPLUS
DN 117:246551

L133 ANSWER 223 OF 558 MEDLINE on STN DUPLICATE 113
TI Dolichol: function, metabolism, and accumulation in human tissues.
SO BIOCHEMISTRY AND CELL BIOLOGY, (1992 Jun) 70 (6) 382-4. Ref: 28
Journal code: 8606068. ISSN: 0829-8211.
AU Carroll K K; Guthrie N; Ravi K
AN 93080867 MEDLINE

L133 ANSWER 224 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Transfection of human endothelial cells with plasminogen activator inhibitor type-1 promoter/reporter gene fragments reveals phorbol ester induction of gene expression
SO Fibrinolysis (1992), 6(4), 256-62
CODEN: FBRIE7; ISSN: 0268-9499
AU Descheemaeker, K. A.; Nelles, L.; Moreau, H.; Strandberg, L.; Ny, T.; Collen, Desire
AN 1993:53501 HCPLUS
DN 118:53501

L133 ANSWER 225 OF 558 MEDLINE on STN DUPLICATE 114
TI Fibric acid derivatives: effects on the **synthesis** of **isoprenoid** lipids in cultured human lymphocytes.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1992 Jul 29) 1127 (2) 168-73.
Journal code: 0217513. ISSN: 0006-3002.
AU Henry A; Allen C M; Stacpoole P W
AN 92353119 MEDLINE

L133 ANSWER 226 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI CHOLESTEROL-BIOSYNTHESIS AND METABOLISM
SO CARDIOVASCULAR DRUGS AND THERAPY, (APR 1992) Vol. 6, No. 2, pp. 103-110.
ISSN: 0920-3206.
AU RUSSELL D W (Reprint)
AN 92:320939 SCISEARCH

L133 ANSWER 227 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI C50 bicyclic **carotenoids**: Sarcinaxanthin **synthesis**
SO Methods in Enzymology (1992), 213(Carotenoids, Pt. A), 75-86
CODEN: MENZAU; ISSN: 0076-6879
AU Ferezou, J. P.
AN 1993:192043 HCPLUS
DN 118:192043

L133 ANSWER 228 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI THE ROLE OF INTERMEDIATE FILAMENTS IN THE FORMATION OF FIBROBLAST PROCESSES **INDUCED** BY THE TUMOR **PROMOTER**
PHORBOL-12-MYRISTATE-13-**ACETATE** PMA IN FIBROBLASTS.
SO Tsitologiya, (1992) Vol. 34, No. 2, pp. 18-22.
CODEN: TSITAQ. ISSN: 0041-3771.
AU BERSHADSKII A D [Reprint author]; IVANOVA O YU; LYASS L A; PLETYUSHKINA O YU; VASIL'EV YU M; GEL'FAND I M
AN 1992:434534 BIOSIS

L133 ANSWER 229 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

- DUPLICATE 115
- TI DIFLUFENICAN A CAROTENOGENESIS INHIBITOR ALSO REDUCES ACYL LIPID SYNTHESIS.
- SO Pesticide Biochemistry and Physiology, (1992) Vol. 43, No. 1, pp. 14-21.
CODEN: PCB PBS. ISSN: 0048-3575.
- AU ASHTON I P [Reprint author]; ABULNAJA K O; PALLETT K E; COLE D J; HARWOOD J L
- AN 1992:373062 BIOSIS
- L133 ANSWER 230 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
- TI Compsn. for coating of multilayer paper-like material - contains film-forming polymer, achromatic pigment, dye, by-product from isoprene rubber production and solvent.
- PI SU 1668515 A1 19910807 (199222)* 4p D21H019-66
- IN AKIM, E L; DAMASKINA, L N; RASSKAZOVA, N YA
- L133 ANSWER 231 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
- TI Preparation of cycloalkenyl alkene(s) for carotenoid synthesis - by dehydrating e.g. pentadienyl tri methyl cyclohexanol derivs., in presence of alkali metal bromide etc..
- PI EP 454002 A 19911030 (199144)* 6p
R: AT BE CH DE FR GB IT LI NL
JP 04225952 A 19920814 (199239) 5p C07C403-12
US 5155255 A 19921013 (199244) 5p C07C403-12
EP 454002 A3 19920506 (199330) 6p
EP 454002 B1 19950628 (199530) DE 8p C07C403-12
R: AT BE CH DE DK FR GB IT LI NL
DE 59105828 G 19950803 (199536) C07C403-12
JP 2945504 B2 19990906 (199942) 6p C07C403-12
- IN MAZZUCHELLI, M; SOUKUP, M; SPURR, P; STIRTT, C; MAZZUCHELLI, M; STRITT, C
- L133 ANSWER 232 OF 558 MEDLINE on STN DUPLICATE 116
- TI Regulation of c-fos and c-jun protooncogene expression by the Ca(2+)-ATPase inhibitor thapsigargin.
- SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Aug 15) 88 (16) 7096-100.
Journal code: 7505876. ISSN: 0027-8424.
- AU Schonthal A; Sugarman J; Brown J H; Hanley M R; Feramisco J R
- AN 91334412 MEDLINE
- L133 ANSWER 233 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
- TI REGULATION OF C-FOS AND C-JUN PROTOONCOGENE EXPRESSION BY THE CA2+-ATPASE INHIBITOR THAPSIGARGIN
- SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991) Vol. 88, No. 16, pp. 7096-7100.
- AU SCHONTHAL A (Reprint); SUGARMAN J; BROWN J H; HANLEY M R; FERAMISCO J R
- AN 91:466535 SCISEARCH
- L133 ANSWER 234 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN
- TI Regulation of c-fos and c-jun protooncogene expression by the Ca super(2+)-ATPase inhibitor thapsigargin.
- SO PROC. NATL. ACAD. SCI. USA., (1991) vol. 88, no. 16, pp. 7096-7100.
- AU Schoenthal, A.; Sugarman, J.; Heller Brown, J.; Hanley, M.R.; Feramisco, J.R.
- AN 91:73482 LIFESCI
- L133 ANSWER 235 OF 558 MEDLINE on STN DUPLICATE 117
- TI Role of multiple environmental stimuli in control of transcription from a nitrogen-regulated promoter in Escherichia coli with weak or no activator-binding sites.
- SO JOURNAL OF BACTERIOLOGY, (1991 Oct) 173 (20) 6355-63.
Journal code: 2985120R. ISSN: 0021-9193.
- AU Schneider B L; Shiau S P; Reitzer L J
- AN 92011406 MEDLINE

- L133 ANSWER 236 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 118
- TI TUMOR-PROMOTING ACTIVITY OF ETHYL PHENYLPROPIOLATE
- SO CANCER RESEARCH, (1991) Vol. 51, No. 20, pp. 5642-5648.
- AU CAMERON G S (Reprint); BALDWIN J K; KLANN R C; PATRICK K E; FISCHER S M
- AN 91:566095 SCISEARCH
- L133 ANSWER 237 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
- TI A NEW PRENYLATION METHOD USING THE LITHIUM ENOLATE OF PRENAL - REACTION WITH POLYUNSATURATED ALDEHYDES - A SHORT ACCESS TO RETINAL
- SO TETRAHEDRON LETTERS, (1991) Vol. 32, No. 35, pp. 4499-4500.
- AU DUHAMEL L (Reprint); GUILLEMONT J; POIRIER J M; CHABARDES P
- AN 91:490978 SCISEARCH
- L133 ANSWER 238 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
- TI A new prenylation method using the lithium enolate of prenol. Reaction with polyunsaturated aldehydes. A short access to retinal.
- SO Tetrahedron Letters, (1991) 32/35 (4499-4500).
ISSN: 0040-4039 CODEN: TELEAY
- AU Duhamel L.; Guillemont J.; Poierier J.-M.; Chabardes P.
- AN 91265732 EMBASE
- L133 ANSWER 239 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 119
- TI Regulatory elements involved in constitutive and phorbol ester-inducible expression of the plasminogen activator inhibitor type 2 gene promoter.
- SO NUCLEIC ACIDS RES., (1991) vol. 19, no. 14, pp. 3881-3886.
- AU Cousin, E.; Medcalf, R.L.; Bergonzelli, G.E.; Kruithof, E.K.O.
- AN 91:32353 LIFESCI
- L133 ANSWER 240 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
- TI REGULATORY ELEMENTS INVOLVED IN CONSTITUTIVE AND PHORBOL ESTER-INDUCIBLE EXPRESSION OF THE PLASMINOGEN-ACTIVATOR INHIBITOR TYPE-2 GENE PROMOTER
- SO NUCLEIC ACIDS RESEARCH, (1991) Vol. 19, No. 14, pp. 3881-3886.
- AU COUSIN E (Reprint); MEDCALF R L; BERGONZELLI G E; KRUITHOF E K O
- AN 91:436459 SCISEARCH
- L133 ANSWER 241 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
- TI Stereospecific synthesis of the octaprenols WT3C4OH and WT3C3TOH
- SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1991), (10), 2333-8
CODEN: IASKA6; ISSN: 0002-3353
- AU Grigor'eva, N. Ya.; Pinsker, O. A.; Moiseenkov, A. M.
- AN 1992:59665 HCAPLUS
- DN 116:59665
- L133 ANSWER 242 OF 558 MEDLINE on STN DUPLICATE 120
- TI Influence of a mutation in the putative nucleotide binding site of the nitrogen regulatory protein NTRC on its positive control function.
- SO NUCLEIC ACIDS RESEARCH, (1991 May 11) 19 (9) 2281-7.
Journal code: 0411011. ISSN: 0305-1048.
- AU Austin S; Kundrot C; Dixon R
- AN 91252264 MEDLINE
- L133 ANSWER 243 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
- TI INFLUENCE OF A MUTATION IN THE PUTATIVE NUCLEOTIDE BINDING-SITE OF THE NITROGEN REGULATORY PROTEIN NTRC ON ITS POSITIVE CONTROL FUNCTION
- SO NUCLEIC ACIDS RESEARCH, (1991) Vol. 19, No. 9, pp. 2281-2287.
- AU AUSTIN S; KUNDROT C; DIXON R (Reprint)
- AN 91:297327 SCISEARCH
- L133 ANSWER 244 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 121
- TI AN INVITRO TRANSCRIPTION ANALYSIS OF EARLY RESPONSES OF THE

- HUMAN-IMMUNODEFICIENCY-VIRUS TYPE-1 LONG TERMINAL REPEAT TO DIFFERENT TRANSCRIPTIONAL ACTIVATORS
SO MOLECULAR AND CELLULAR BIOLOGY, (1991) Vol. 11, No. 4, pp. 1883-1893.
AU LI Y C; ROSS J; SCHEPPLER J A; FRANZA B R (Reprint)
AN 91:163440 SCISEARCH
- L133 ANSWER 245 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 122
TI THE HUMAN INTERFERON-GAMMA GENE CONTAINS AN INDUCIBLE PROMOTER THAT CAN BE TRANSACTIVATED BY TAX-I AND TAX-II
SO EUROPEAN JOURNAL OF IMMUNOLOGY, (1991) Vol. 21, No. 8, pp. 1879-1885.
AU BROWN D A; NELSON F B; REINHERZ E L; DIAMOND D J (Reprint)
AN 91:462767 SCISEARCH
- L133 ANSWER 246 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 123
TI A MEMBER OF THE SET OF KAPPA-B BINDING-PROTEINS, HIVEN86A, IS A PRODUCT OF THE HUMAN C-REL PROTOONCOGENE
SO ONCOGENE, (1991) Vol. 6, No. 4, pp. 665-667.
AU LEE J H; LI Y C; DOERRE S; SISTA P; BALLARD D W; GREENE W C; FRANZA B R (Reprint)
AN 91:358265 SCISEARCH
- L133 ANSWER 247 OF 558 MEDLINE on STN DUPLICATE 124
TI Cell-cycle-dependent, differential prenylation of proteins.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1991 Sep 1) 200 (2) 579-90.
Journal code: 0107600. ISSN: 0014-2956.
AU Sepp-Lorenzino L; Rao S; Coleman P S
AN 91364711 MEDLINE
- L133 ANSWER 248 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI CELL-CYCLE-DEPENDENT, DIFFERENTIAL PRENYLATION OF PROTEINS
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1991) Vol. 200, No. 2, pp. 579-590.
AU SEPPOLORENZINO L; RAO S; COLEMAN P S (Reprint)
AN 91:485814 SCISEARCH
- L133 ANSWER 249 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 125
TI AN INDUCIBLE GENE-EXPRESSION SYSTEM FOR NEUROSPORA-CRASSA
SO ENZYME AND MICROBIAL TECHNOLOGY, (1991) Vol. 13, No. 5, pp. 400-403.
AU COLLINS M E (Reprint); BRIGGS G; SAWYER C; SHEFFIELD P; CONNERTON I F
AN 91:242790 SCISEARCH
- L133 ANSWER 250 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI **Astaxanthin production** by a green alga, Haematococcus pluvialis accompanied with morphological changes in **acetate** media;
potential application as pigment
SO J.Ferment.Bioeng.; (1991) 71, 5, 335-39
CODEN: JFBIEK
AU Kobayashi M; Kakizono T; *Nagai S
AN 1991-10000 BIOTECHDS
- L133 ANSWER 251 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI **ASTAXANTHIN PRODUCTION** BY A GREEN-ALGA,
HAEMATOCOCCUS-PLUVIALIS ACCOMPANIED WITH MORPHOLOGICAL-CHANGES IN **ACETATE** MEDIA
SO JOURNAL OF FERMENTATION AND BIOENGINEERING, (1991) Vol. 71, No. 5, pp. 335-339.
AU KOBAYASHI M; KAKIZONO T; NAGAI S (Reprint)
AN 91:319297 SCISEARCH
- L133 ANSWER 252 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Culture of the **astaxanthin**-producing green alga Haematococcus

- SO pluvialis. 1. Effects of nutrients on growth and cell type
Journal of Applied Phycology (1991), 3(4), 295-304
CODEN: JAPPEL; ISSN: 0921-8971
- AU Borowitzka, Michael A.; Huisman, John M.; Osborn, Ann
AN 1992:147903 HCAPLUS
DN 116:147903
- L133 ANSWER 253 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI EVIDENCE FOR DIRECT ABA SYNTHESIS IN DUNALIELLA VOLVOCALES.
- SO Cryptogamic Botany, (1991) Vol. 2, No. 2-3, pp. 192-200.
ISSN: 0935-2147.
- AU BOPP-BUHLER M-L [Reprint author]; WABRA P; HARTUNG W; GIMMLER H
AN 1992:101188 BIOSIS
- L133 ANSWER 254 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI CONTROL OF TRANSCRIPTION INITIATED FROM A **GLNAP2**
PROMOTER IN **ESCHERICHIA-COLI** WITHOUT UPSTREAM **ACTIVATOR**
BINDING SITES.
- SO Abstracts of the General Meeting of the American Society for Microbiology, (1991) Vol. 91, pp. 164.
Meeting Info.: 91ST GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 1991, DALLAS, TEXAS, USA, MAY 5-9, 1991. ABSTR GEN MEET AM SOC MICROBIOL.
ISSN: 1060-2011.
- AU SCHNEIDER B [Reprint author]; SHIAU S-P; REITZER L
AN 1991:381644 BIOSIS
- L133 ANSWER 255 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Production of oxo-beta-ionone - by oxidation of beta-ionone enol-**acetate** with chromium oxide solution in sulphuric acid, in methylene chloride medium.
- PI SU 1544763 A 19900223 (199102)*
IN MICROPOLSK, M A; SAMOKHVALO, G I; TUTORSKAYA, O O
- L133 ANSWER 256 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI A DNA motif related to the cAMP-responsive element and an exon-located activator protein-2 binding site in the human tissue-type plasminogen activator gene promoter cooperate in basal expression and convey activation by phorbol ester and cAMP
- SO Journal of Biological Chemistry (1990), 265(24), 14618-26
CODEN: JBCHA3; ISSN: 0021-9258
- AU Medcalf, Robert L.; Ruegg, Marlies; Schleuning, Wolf Dieter
AN 1990:546572 HCAPLUS
DN 113:146572
- L133 ANSWER 257 OF 558 MEDLINE on STN DUPLICATE 127
TI Incorporation of squalene into rod outer segments.
- SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Aug 15) 265 (23) 13709-12.
Journal code: 2985121R. ISSN: 0021-9258.
- AU Keller R K; Fliesler S J
AN 90337983 MEDLINE
- L133 ANSWER 258 OF 558 MEDLINE on STN DUPLICATE 128
TI Vitamin A metabolism in the human intestinal Caco-2 cell line.
- SO BIOCHEMISTRY, (1990 Dec 18) 29 (50) 11116-23.
Journal code: 0370623. ISSN: 0006-2960.
- AU Quick T C; Ong D E
AN 91105044 MEDLINE
- L133 ANSWER 259 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Polyene **synthesis**. Ready construction of retinol-**carotene** fragments, (\pm)-6(E)-LTB3 leukotrienes, and corticocin
- SO Journal of Organic Chemistry (1990), 55(25), 6203-14
CODEN: JOCEAH; ISSN: 0022-3263
- AU Wenkert, Ernest; Guo, Ming; Lavilla, Rodolfo; Porter, Barry; Ramachandran,

- AN Kishore; Sheu, Jyh Horng
DN 1991:6061 HCPLUS
DN 114:6061
- L133 ANSWER 260 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 129
- TI CYTOSKELETAL REORGANIZATIONS RESPONSIBLE FOR THE PHORBOL ESTER-INDUCED
FORMATION OF CYTOPLASMIC PROCESSES POSSIBLE INVOLVEMENT OF INTERMEDIATE
FILAMENTS.
- SO Proceedings of the National Academy of Sciences of the United States of
America, (1990) Vol. 87, No. 5, pp. 1884-1888.
CODEN: PNASA6. ISSN: 0027-8424.
- AU BERSHADSKY A D [Reprint author]; IVANOVA O Y; LYASS L A; PLETYUSHKINA O Y;
VASILIEV J M; GELFAND I M
- AN 1990:215899 BIOSIS
- L133 ANSWER 261 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 130
- TI PLASTIDIC **ISOPRENOID SYNTHESIS** DURING CHLOROPLAST
DEVELOPMENT CHANGE FROM METABOLIC AUTONOMY TO A DIVISION-OF-LABOR STAGE.
- SO Plant Physiology (Rockville), (1990) Vol. 93, No. 3, pp. 1121-1127.
CODEN: PLPHAY. ISSN: 0032-0889.
- AU HEINTZE A [Reprint author]; GORLACH J; LEUSCHNER C; HOPPE P; HAGLESTEIN P;
SCHULZE-SIEBERT D; SCHULTZ G
- AN 1990:430889 BIOSIS
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L133 ANSWER 329 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 170
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as intermediate in carotenoid synthesis.

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R: AT BE CH DE FR GB IT LI NL
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L133 ANSWER 339 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 175
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L133 ANSWER 341 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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L133 ANSWER 343 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 176
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L133 ANSWER 346 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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L133 ANSWER 350 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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L133 ANSWER 352 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 180
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L133 ANSWER 354 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 181
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but not its activity.
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L133 ANSWER 355 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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CODEN: CALEDQ; ISSN: 0304-3835
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Ohigashi, Hajime; Hirota, Mitsuru; Koshimizu, Koich
AN 1983:193098 HCPLUS
DN 98:193098

L133 ANSWER 356 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
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by reaction of polyvinyl alcohol and epsilon-caprolactam in presence of
lead **acetate**.
PI SU 969703 A 19821101 (198335)* 5p
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L133 ANSWER 357 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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L133 ANSWER 358 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
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L133 ANSWER 359 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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L133 ANSWER 360 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 182

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L133 ANSWER 361 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 183

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DIFFERENTIATING HUMAN MYELOID HL-60 LEUKEMIA CELLS.

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CODEN: CRNGDP. ISSN: 0143-3334.

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L133 ANSWER 362 OF 558 MEDLINE on STN DUPLICATE 184

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L133 ANSWER 363 OF 558 MEDLINE on STN DUPLICATE 185

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Cell-cycle variations in the synthesis and assembly of pigment.

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L133 ANSWER 364 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

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CODEN: PRLIDS; ISSN: 0275-3618

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AN 1982:418414 HCPLUS

DN 97:18414

L133 ANSWER 365 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

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CODEN: MIKBA5; ISSN: 0026-3656

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L133 ANSWER 366 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

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L133 ANSWER 367 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
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INTERFERON CHOLERA TOXIN AND RETINOIC-ACID.
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CODEN: JOIMA3. ISSN: 0022-1767.
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L133 ANSWER 369 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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CODEN: JCPRB4; ISSN: 0300-922X
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L133 ANSWER 370 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI TUMOR PROMOTER PHORBOL-12-MYRISTATE-13-ACETATE
INDUCES CHROMOSOMAL DAMAGE VIA INDIRECT ACTION
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L133 ANSWER 371 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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INDUCES CHROMOSOMAL DAMAGE VIA INDIRECT ACTION.
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CODEN: NATUAS. ISSN: 0028-0836.
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L133 ANSWER 372 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
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CODEN: BEDBAP; ISSN: 0365-9631
AU Grumbach, K. H.
AN 1981:600627 HCPLUS
DN 95:200627

L133 ANSWER 373 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Adhesive for paper or polymer film **production** - from butadiene
-styrene and **isoprene**, rubber mixture, colophony ester,
chlorinated-polyethylene and paraffin aerosil and organic solvent.
PI SU 775115 B 19801030 (198129)*
IN DUBOVITSKI, V K; LAVRINCHUK, L I; POTIEVSKAY, S A

L133 ANSWER 374 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI THE BIOCHEMISTRY OF PLANTS A COMPREHENSIVE TREATISE VOL. 4. LIPIDS
STRUCTURE AND FUNCTION.
SO (1980) pp. XV+693P. STUMPF, P. K. (ED.). THE BIOCHEMISTRY OF PLANTS: A
COMPREHENSIVE TREATISE, VOL. 4. LIPIDS: STRUCTURE AND FUNCTION. XV+693P.
ACADEMIC PRESS, INC.: NEW YORK, N.Y., USA; LONDON, ENGLAND. ILLUS.
ISBN: 0-12-675404-7.
AU STUMPF P K [Reprint author]

AN 1981:73954 BIOSIS

L133 ANSWER 375 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI PURIFICATION OF PLASMINOGEN ACTIVATOR FROM ROUS SARCOMA VIRUS TRANSFORMED
CHICK EMBRYO FIBROBLASTS TREATED WITH THE TUMOR PROMOTER PHORBOL 12
MYRISTATE 13 ACETATE.

SO Biochemistry, (1980) Vol. 19, No. 24, pp. 5463-5471.
CODEN: BICHAW. ISSN: 0006-2960.

AU GOLDFARB R H [Reprint author]; QUIGLEY J P
AN 1981:190805 BIOSIS

L133 ANSWER 376 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 188

TI SYNTHESIS OF OPTICALLY ACTIVE NATURAL CAROTENOIDS AND
STRUCTURALLY RELATED COMPOUNDS 6. SYNTHESIS OF PICRO CROCIN.

SO Helvetica Chimica Acta, (1980) Vol. 63, No. 6, pp. 1463-1466.
CODEN: HCACAV. ISSN: 0018-019X.

AU MAYER H [Reprint author]; SANTER J-M
AN 1981:185187 BIOSIS

L133 ANSWER 377 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI RAPID ALTERATION IN CALCIUM CONTENT AND FLUXES IN PHORBOL 12 MYRISTATE 13
ACETATE TREATED MYO BLASTS.

SO Biochemical and Biophysical Research Communications, (1980) Vol. 92, No.
2, pp. 624-630.
CODEN: BBRCA9. ISSN: 0006-291X.

AU SCHIMMEL S D [Reprint author]; HALLAM T
AN 1980:197835 BIOSIS

L133 ANSWER 378 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
RESERVED. on STN

TI A comparison of transition metal and non-transition metal oligomerizations
of isoprene for the synthesis of terpenes.

SO Annals of the New York Academy of Sciences, (1980) VOL. 333/- (286-301).
CODEN: ANYAA

AU Chalk A.J.; Magennis S.A.
AN 81067868 EMBASE

L133 ANSWER 379 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Use of the reverse osmosis method for purifying isoprene
production wastewater

SO Khimicheskaya Promyshlennost (Moscow, Russian Federation) (1980), (2),
124-5
CODEN: KPRMAW; ISSN: 0023-110X

AU Galutkina, K. A.; Nemchenko, A. G.; Apostolova, I. V.; Karazeeva, L. N.
AN 1980:573093 HCPLUS
DN 93:173093

L133 ANSWER 380 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI E-4-Acetoxy-2-methyl-2-butenal

SO U.S., 6 pp.
CODEN: USXXAM

IN Babler, James H.

AN 1980:93898 HCPLUS

DN 92:93898

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
PI	US 4175204	A	19791120	US 1979-1075	19790108
	WO 7900485	A1	19790726	WO 1979-US28	19790116
	W: CH, DE, GB, JP, SE				
RW: CH, DE, FR, GB					
	EP 8581	A1	19800305	EP 1979-900203	19790116
	R: CH, DE, FR, GB				

L133 ANSWER 381 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Photopolymerizable compositions and photosensitive elements containing them

SO Belg., 35 pp.

CODEN: BEXXAL

IN Okai, Sakuo; Kimoto, Koichi

AN 1980:458254 HCPLUS

DN 93:58254

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 878716	A1	19791231	BE 1979-197095	19790911
	NO 7902905	A	19800312	NO 1979-2905	19790907
	AU 7950673	A1	19800320	AU 1979-50673	19790907
	AU 527450	B2	19830303		
	IL 58204	A1	19830223	IL 1979-58204	19790907
	ZA 7904783	A	19800924	ZA 1979-4783	19790910
	NL 7906776	A	19800313	NL 1979-6776	19790911
	IN 152081	A	19831015	IN 1979-CA1002	19790924

L133 ANSWER 382 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI **Synthesis** of compounds containing the **isoprene** unit.

A new stereoselective **synthesis** of all-trans vitamin A and of methyl (2E,4E)-3,7,11-trimethylidodeca-2,4-dienoate

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (7), 1729-33

CODEN: JCPRB4; ISSN: 0300-922X

AU Cardillo, Giuliana; Contento, Michele; Sandri, Sergio; Panunzio, Mauro

AN 1980:94599 HCPLUS

DN 92:94599

L133 ANSWER 383 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Evidence for the existence of two β - **carotene** pools and two biosynthetic β - **carotene** pathways in the chloroplast

SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1979), 34C(12), 1205-8

CODEN: ZNCBDA; ISSN: 0341-0382

AU Grumbach, K. H.

AN 1980:107386 HCPLUS

DN 92:107386

L133 ANSWER 384 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI The effect of PS II herbicides, amitrol and SAN 6706 on the activity of 3-hydroxy-3-methylglutaryl-coenzyme-A-reductase and the incorporation of [2-14C]-**acetate** and [2-3H]-mevalonate into chloroplast pigments of radish seedlings

SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1979), 34C(11), 941-3

CODEN: ZNCBDA; ISSN: 0341-0382

AU Grumbach, K. H.; Bach, T. J.

AN 1980:19002 HCPLUS

DN 92:19002

L133 ANSWER 385 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Effect of organic substrates on chlorophyll and **carotenoid** **production** of Anabaena sp. under light and dark conditions

SO Journal of the Indian Botanical Society (1979), 58(4), 358-62

CODEN: JIBSAC; ISSN: 0019-4468

AU Sahu, J. K.; Adhikary, S. P.; Pattnaik, H.

AN 1981:27160 HCPLUS

DN 94:27160

L133 ANSWER 386 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI The role of retinol in the initiation of sporangiophores of Phycomyces blakesleeanus

SO Planta (1979), 146(3), 257-62
CODEN: PLANAB; ISSN: 0032-0935
AU Galland, P.; Russo, V. E. A.
AN 1979:554387 HCAPLUS
DN 91:154387

L133 ANSWER 387 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of **carotene** by the yeast *Sporobolomyces pararoseus*
T during cultivation on peat oxidate
SO Prikladnaya Biokhimiya i Mikrobiologiya (1979), 15(2), 222-6
CODEN: PBMIAK; ISSN: 0555-1099
AU Koroleva, I. F.; Zalashko, M. V.; Demina, S. G.; Kosonogova, L. V.;
Evdokimova, G. A.
AN 1979:402302 HCAPLUS
DN 91:2302

L133 ANSWER 388 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 189
TI **CAROTENOID AND STEROID SYNTHESSES** BY CARROT CELLS IN
SUSPENSION CULTURE.
SO Physiologia Plantarum, (1979) Vol. 46, No. 2, pp. 127-132.
CODEN: PHPLAI. ISSN: 0031-9317.
AU SHIMIZU K [Reprint author]; KIKUCHI T; SUGANO N; NISHI A
AN 1979:260872 BIOSIS

L133 ANSWER 389 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Selection of a nutrient medium for the production of *Rhodotorula gracilis*
K-1 with vitamin A activity
SO Izvestiya Akademii Nauk Moldavskoi SSR, Biologicheskie i Khimicheskie
Nauki (1979), (3), 56-60
CODEN: IMBKB6; ISSN: 0568-5192
AU Atamanyuk, D. I.; Borisova, T. A.; Tsygulya, T. E.; Garkavenko, A. I.
AN 1979:522112 HCAPLUS
DN 91:122112

L133 ANSWER 390 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI INDUCTION OF PLASMINOGEN ACTIVATOR IN CULTURED CELLS BY MACRO CYCLIC PLANT
DI TERPENE ESTERS AND OTHER AGENTS RELATED TO TUMOR PROMOTION.
SO Cancer Research, (1978) Vol. 38, No. 5, pp. 1434-1437.
CODEN: CNREA8. ISSN: 0008-5472.
AU WIGLER M [Reprint author]; DEFEO D; WEINSTEIN I B
AN 1978:234524 BIOSIS

L133 ANSWER 391 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Metal-assisted terpenoid **synthesis**. V. The catalytic
trimerization of **isoprene** to trans- β -farnesene and its
synthetic applications for terpenoids
SO Bulletin of the Chemical Society of Japan (1978), 51(4), 1158-62
CODEN: BCSJA8; ISSN: 0009-2673
AU Akutagawa, Susumu; Taketomi, Takanao; Kumabayashi, Hidenori; Takayama,
Kiyoshi; Someya, Taichi; Otsuka, Sei
AN 1978:443834 HCAPLUS
DN 89:43834

L133 ANSWER 392 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Identification of oxygen-containing organic substances from
chromatographic spectra
SO Zhurnal Analiticheskoi Khimii (1978), 33(4), 775-81
CODEN: ZAKHA8; ISSN: 0044-4502
AU Vigdergauz, M. S.; Gizzatullin, R. R.; Tukmanov, R. G.; Fedin, Yu. I.;
Kiyanenko, G. V.
AN 1978:484360 HCAPLUS
DN 89:84360

L133 ANSWER 393 OF 558 MEDLINE on STN
TI [Effect of organic acids on the biosynthesis of macrotetalide antibiotics by an *Actinomyces chrysomallus* var. **carotenoides** strain].
Vliianie organicheskikh kislot na biosintez makrotetralidnykh antibiotikov shtammom *Actinomyces chrysomallus* var. **carotenoides**
SO ANTIBIOTIKI, (1978 Jul) 23 (7) 586-90.
Journal code: 0375020. ISSN: 0003-5637.
AU Nefelova M V; Sverdlova A N; Silaev A B
AN 78234086 MEDLINE

L133 ANSWER 394 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Effect of organic acids on the biosynthesis of **carotenes** by *Actinomyces chrysomallus* strains
SO Mikrobiologiya (1978), 47(2), 208-11
CODEN: MIKBA5; ISSN: 0026-3656
AU Nefelova, M. V.; Sverdlova, A. N.; Alekseeva, L. N.
AN 1978:419961 HCPLUS
DN 89:19961

L133 ANSWER 395 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Water soluble vinyl -**acetate** copolymer for fibres **prodn**. - by copolymerisation with **isoprene** in presence of initiator.
PI SU 567729 A 19770831 (197824)*
IN GABRIELYAN, G A; PAKHOMOVA, A S; ROGOVIN, Z A

L133 ANSWER 396 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Symmetrical **carotenoids** production - by reacting ylid cpds. with peroxy acids or their salts or esters.
PI DE 2702633 A 19770728 (197731)*
DE 2702633 C 19841025 (198444)

L133 ANSWER 397 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 190
TI ON THE INFLUENCE OF CHOLESTEROL FEEDING AND OF A LIPOGENIC DIET ON THE CHOLESTEROGENESIS IN RAT LIVER IN-VIVO.
SO Helvetica Chimica Acta, (1977) Vol. 60, No. 8, pp. 2686-2694.
CODEN: HCACAV. ISSN: 0018-019X.
AU WISS O [Reprint author]; WISS V
AN 1978:234974 BIOSIS

L133 ANSWER 398 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 191
TI ON METABOLIC DEGRADATIONS OF SQUALENE LANOSTEROL AND CHOLESTEROL IN RAT LIVER IN-VIVO EVIDENCE FOR RE CYCLING OF METABOLITES FOR THE **SYNTHESIS** OF **ISOPRENE** COMPOUNDS.
SO Helvetica Chimica Acta, (1977) Vol. 60, No. 6, pp. 1961-1966.
CODEN: HCACAV. ISSN: 0018-019X.
AU WISS O [Reprint author]; WISS V
AN 1978:157927 BIOSIS

L133 ANSWER 399 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Hydroperoxide oxidation of phosphorus ylides: a new and useful route to symmetrical **carotenoids**
SO Justus Liebigs Annalen der Chemie (1977), (7), 1146-59
CODEN: JLACBF; ISSN: 0075-4617
AU Nuerrenbach, Axel; Paust, Joachim; Pommer, Horst; Schneider, Joachim; Schulz, Bernhard
AN 1978:121450 HCPLUS
DN 88:121450

L133 ANSWER 400 OF 558 MEDLINE on STN DUPLICATE 192
TI [Participation of **acetate** in the biosynthesis of **carotenoids** and macrotetalids by *Actinomyces chrysomallus* var.

carotenoides].

Uchastie atsetata v biosinteze karotinoidov i **makrotetralidov**
Actinomyces chrysomallus var. carotenoides.

SO MIKROBIOLOGIIA, (1977 Nov-Dec) 46 (6) 1122-3.

Journal code: 0376652. ISSN: 0026-3656.

AU Sverdlova A N; Silaev A B; Alekseeva L N; Nefelova M V

AN 78091762 MEDLINE

L133 ANSWER 401 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI PARTICIPATION OF **ACETATE** IN BIOSYNTHESIS OF **CAROTENOIDES**

AND MACRO TETRALIDES BY ACTINOMYCES-CHRYSMALLUS-VAR-CAROTENOIDES

SO Mikrobiologiya, (1977) Vol. 44, No. 6, pp. 1122-1123.

CODEN: MIKBA5. ISSN: 0026-3656.

AU SVERDLOVA A N [Reprint author]; SILAEV A B; ALEKSEEVA L N; NEFELLOVA M V

AN 1978:204223 BIOSIS

L133 ANSWER 402 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Higher **isoprenoids**. V. Partial **syntheses** from
cycloartenol, cycloaudenol. Part 1. Mangiferolic acid, ambolic acid

SO Tetrahedron (1977), 33(7), 817-19

CODEN: TETRAB; ISSN: 0040-4020

AU Singh, Chandan; Dev, Sukh

AN 1977:536027 HCPLUS

DN 87:136027

L133 ANSWER 403 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Total **synthesis** of dl- α -tocopherol from **isoprene**

SO Eesti NSV Teaduste Akadeemia Toimetised, Keemia, Geoloogia (1977), 26(4),
271-4

CODEN: EKEGAI; ISSN: 0424-6373

AU Laats, K.; Kogerman, A.; Ammon, K.

AN 1978:136801 HCPLUS

DN 88:136801

L133 ANSWER 404 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Catalyst, containing zinc acetate and cadmium acetate applied on activated
coal, for vapor-phase synthesis of complex vinyl esters from acetylene and
carboxylic acids

SO U.S.S.R.

From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1976, 53(48),
20.

CODEN: URXXAF

IN Boyadzhyan, V. K.; Barsetyan, V. L.; Khachatryan, S. S.; Eritsyan, V. K.;
Voskanyan, P. S.; Stepanyan, G. G.; Antonyan, E. A.; Ovsepyan, L. A.;
Galstyan, A. P.; Badalyan, A. G.

AN 1977:96656 HCPLUS

DN 86:96656

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI SU 540658	T	19761230	SU 1975-2157670	19750603

L133 ANSWER 405 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN

TI Optically active cyclohexane derivatives

SO Ger. Offen., 68 pp.

CODEN: GWXXBX

IN Boguth, Walter; Leuenberger, Hans G. W.; Mayer, Hans Johann; Widmer,
Erich; Zell, Reinhard

AN 1976:492200 HCPLUS

DN 85:92200

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI DE 2537060	A1	19760304	DE 1975-2537060	19750820
DE 2537060	B2	19790523		

DE 2537060	C3	19800117		
CH 605533	A	19780929	CH 1974-11434	19740821
US 3988205	A	19761026	US 1975-601770	19750804
JP 51082789	A2	19760720	JP 1975-99888	19750819
JP 58007277	B4	19830209		
FR 2303797	A1	19761008	FR 1975-25631	19750819
FR 2303797	B1	19800725		
BE 832565	A1	19760220	BE 1975-159309	19750820
GB 1508195	A	19780419	GB 1975-34605	19750820
GB 1508197	A	19780419	GB 1976-47891	19750820
GB 1508196	A	19780419	GB 1976-47892	19750820
AT 7506455	A	19780515	AT 1975-6455	19750820
AT 347422	B	19781227		
NL 7509925	A	19760224	NL 1975-9925	19750821
NL 169195	B	19820118		
NL 169195	C	19820616		
JP 57011300	B4	19820303	JP 1976-452	19760101
FR 2303786	A1	19761008	FR 1976-16821	19760603
FR 2303786	B1	19800530		
FR 2303798	A1	19761008	FR 1976-16822	19760603
FR 2303798	B1	19821029		
US 4026949	A	19770531	US 1976-707128	19760720
US 4072715	A	19780207	US 1976-707123	19760720
US 4095038	A	19780613	US 1976-707146	19760720
US 4156100	A	19790522	US 1977-849138	19771107
JP 55033463	A2	19800308	JP 1979-66908	19790531
JP 59001692	B4	19840113		

L133 ANSWER 406 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI 4-Chloro 2-methyl crotonaldehyde **production** - by chlorinating **isoprene** monoxide e.g. with tert. butyl hypochlorite, useful as vitamin A intermediate.

PI DE 2620968 A 19761118 (197648)*
 US 4054608 A 19771018 (197743)
 DE 2620968 B 19790607 (197924)
 IT 1038011 B 19791120 (198010)

L133 ANSWER 407 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Cyclobutene derivatives as **isoprene** equivalents in terpene **synthesis**. The metathesis of 1-methylcyclobutene
 SO Journal of Organic Chemistry (1976), 41(24), 3928-9
 CODEN: JOCEAH; ISSN: 0022-3263
 AU Wilson, Stephen R.; Schalk, David E.
 AN 1976:592924 HCAPLUS
 DN 85:192924

L133 ANSWER 408 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI New C5-compounds for terpene synthesis. I. Monoacetals of 2-methyl-2-butene-1,4-dial
 SO Justus Liebigs Annalen der Chemie (1976), (12), 2194-205
 CODEN: JLACBF; ISSN: 0075-4617
 AU Paust, Joachim; Reif, Werner; Schumacher, Horst
 AN 1977:121562 HCAPLUS
 DN 86:121562

L133 ANSWER 409 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Bacterial **carotenoids**. LI. C50-**carotenoids**. 17.
 Total **synthesis** of two bacterioruberin derivatives. Absolute configuration of bacterioruberin
 SO Tetrahedron Letters (1976), (12), 955-8
 CODEN: TELEAY; ISSN: 0040-4039
 AU Johansen, Jon E.; Liaaen-Jensen, Synnove
 AN 1976:446887 HCAPLUS
 DN 85:46887

L133 ANSWER 410 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The synthesis of 2,2'-dinorcarotenoids
SO Helvetica Chimica Acta (1976), 59(2), 439-52
CODEN: HCACAV; ISSN: 0018-019X
AU Kienzle, Frank; Minder, Rudolf E.
AN 1976:421660 HCPLUS
DN 85:21660

L133 ANSWER 411 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI 2,2,6-Trimethyl-cyclohex-5-en-1,4-dione prodn - in good yields by liq phase catalytic oxidn of 3,3,5-trimethyl-cyclohex-4-en-1-one.
PI DE 2457157 A 19750612 (197525)*
NL 7415846 A 19750610 (197526)
JP 50093946 A 19750726 (197538)
FR 2253730 A 19750808 (197539)
GB 1429120 A 19760324 (197613)
US 4010205 A 19770301 (197710)
CH 585168 A 19770228 (197716)
US 4026948 A 19770531 (197723)
DE 2457157 B 19780209 (197807)
JP 53028907 B 19780817 (197837)

L133 ANSWER 412 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Carotenoid synthesis using sulfones.
Synthesis of apocarotenoids and a torularhodin ester
SO Helvetica Chimica Acta (1975), 58(5), 1492-7
CODEN: HCACAV; ISSN: 0018-019X
AU Fischli, Albert; Mayer, Hans
AN 1975:514676 HCPLUS
DN 83:114676

L133 ANSWER 413 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and reactions of isoprenyl terminal epoxides in the chromone and quinoline series
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (2), 150-4
CODEN: JCPRB4; ISSN: 0300-922X
AU Grundon, Michael F.; Okely, H. Martyn
AN 1975:170584 HCPLUS
DN 82:170584

L133 ANSWER 414 OF 558 MEDLINE on STN
TI Morphology and physiology of Spirochaeta aurantia strains isolated from aquatic habitats.
SO ARCHIVES OF MICROBIOLOGY, (1975 Sep 30) 105 (1) 1-12.
Journal code: 0410427. ISSN: 0302-8933.
AU Breznak J A; Canale-Parola E
AN 76060756 MEDLINE

L133 ANSWER 415 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Pivalic acid prepn from isoprene - by reaction with water vapour using phosphoric acid catalyst, then oxidn of pivalaldehyde.
PI JP 49024895 B 19740626 (197429)*

L133 ANSWER 416 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Isoprene prepn from tert. butanol deriv - and formaldehyde using boron trifl-uoride catalyst.
PI JP 49010927 B 19740313 (197415)*

L133 ANSWER 417 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI SYNTHESSES OF ISOPRENE AND ITS INTERMEDIATES FROM 3-HYDROXY-3-METHYLBUTYL ACETATE
SO NIPPON KAGAKU KAISHI, (1974) Vol. 1974, No. 10, pp. 2014-2016.

AU FUKUNISH.K (Reprint); NAITO I; MASHIO F
AN 74:352428 SCISEARCH

L133 ANSWER 418 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** of isoprene and its intermediates from
3-hydroxy-3-methylbutyl acetate
SO Nippon Kagaku Kaishi (1974), (10), 2014-16
CODEN: NKAKB8; ISSN: 0369-4577
AU Fukunishi, Koushi; Naito, Ikuo; Mashio, Fujio
AN 1975:44605 HCAPLUS
DN 82:44605

L133 ANSWER 419 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** of partially hydrogenated isoprene dimers
SO Nippon Kagaku Kaishi (1974), (9), 1677-81
CODEN: NKAKB8; ISSN: 0369-4577
AU Imaizumi, Fumitake; Ando, Naoki; Hirayanagi, Shigetoshi; Mori, Kan
AN 1975:18258 HCAPLUS
DN 82:18258

L133 ANSWER 420 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Stereoselective coupling reactions of allylnickel complexes
SO Gazzetta Chimica Italiana (1974), 104(5-6), 557-66
CODEN: GCITA9; ISSN: 0016-5603
AU Guerrieri, Franco; Chiusoli, Gian P.; Merzoni, Sergio
AN 1974:536288 HCAPLUS
DN 81:136288

L133 ANSWER 421 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Properties of Thiocapsa roseopersicina strain BBS isolated from the
estuary of the White Sea
SO Mikrobiologiya (1974), 43(2), 326-32
CODEN: MIKBA5; ISSN: 0026-3656
AU Bogorov, L. V.
AN 1974:487746 HCAPLUS
DN 81:87746

L133 ANSWER 422 OF 558 MEDLINE on STN DUPLICATE 193
TI Nitrogen metabolism control of the acetate--stimulated
carotenoid synthesis in Rhodotorula sanneii.
SO ZENTRALBLATT FUR BAKTERIOLOGIE, PARASITENKUNDE, INFektionskrankheiten und
HYGIENE. ZWEITE NATURWISSENSCHAFTLICHE ABT.: ALLGEMEINE,
LANDWIRTSCHAFTLICHE UND TECHNISCHE MIKROBIOLOGIE, (1974) 129 (1) 68-71.
Journal code: 0414371. ISSN: 0044-4057.
AU Vuori A T; Gyllenberg H G
AN 74304966 MEDLINE

L133 ANSWER 423 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI 3-Methylbutanediol-1,3 prodn - by catalytic oxidation of isoamyl
acetate, hydrogenation and saponification.
PI SU 393261 A 19731228 (197421)*

L133 ANSWER 424 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Carotenoids and degraded carotenoids. II.
Synthesis of dl-3-hydroxydihydro- β -damascone and
dihydro- β -damascone
SO Agricultural and Biological Chemistry (1973), 37(12), 2907-11
CODEN: ABCHA6; ISSN: 0002-1369
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Masanao
AN 1974:83309 HCAPLUS
DN 80:83309

L133 ANSWER 425 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of trans-4-amino-1-hydroxy-2-methyl-2-butene from isoprene (*synthesis* of zeatin)
SO Nippon Nogeikagaku Kaishi (1973), 47(12), 807-11
CODEN: NNKAA; ISSN: 0002-1407
AU Ohsugi, Motoyoshi; Takahashi, Satoru; Ichimoto, Itsuo; Ueda, Hiroo
AN 1974:403280 HCAPLUS
DN 81:3280

L133 ANSWER 426 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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SO Vitam. Pitan. S-kh. Zhivotn. (1973), 286-98. Editor(s): Tomme, M. F.
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CODEN: 29SJA8
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AN 1975:407774 HCAPLUS
DN 83:7774

L133 ANSWER 427 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Reactions of π -allylic nickel(II) bromide with organic halides. Novel synthesis of monoterpenoid compounds
SO Journal of Organic Chemistry (1972), 37(3), 462-6
CODEN: JOCEAH; ISSN: 0022-3263
AU Sato, Kikumasa; Inoue, Seichi; Ota, Satoshi; Fujita, Yoshiji
AN 1972:85936 HCAPLUS
DN 76:85936

L133 ANSWER 428 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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CODEN: EGKZA9; ISSN: 0013-7626
AU Okubo, Masutaro; Umeda, Keiji
AN 1972:486729 HCAPLUS
DN 77:86729

L133 ANSWER 429 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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SO Mikrobiologiya (1971), 40(6), 1112-13
CODEN: MIKBA5; ISSN: 0026-3656
AU Ignatov, V. V.; Stupnikova, S. K.; Volkova, V. V.
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DN 76:122238

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L133 ANSWER 431 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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AN 1972:139862 BIOSIS

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 SO Mikrobiologiya (1971), 40(2), 246-51
 CODEN: MIKBA5; ISSN: 0026-3656
 AU Bezburodov, A. M.; Galynkin, V. A.
 AN 1971:431601 HCAPLUS
 DN 75:31601
- L133 ANSWER 433 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Research, conducted at the All-Union Scientific-Research Institute of Synthetic Rubber, on the preparation of basic monomers for the synthesis of rubbers
 SO Kauchuk i Rezina (1971), 30(2), 15-17
 CODEN: KCRZAE; ISSN: 0022-9466
 AU Gorin, Yu. A.
 AN 1971:143011 HCAPLUS
 DN 74:143011
- L133 ANSWER 434 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Nonconjugated dienes
 SO Jpn. Tokkyo Koho, 2 pp.
 CODEN: JAXXAD
 IN Hata, Go; Aoki, Kazumi
 AN 1972:15566 HCAPLUS
 DN 76:15566
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI JP 45007526 B4 19700316 JP 19650809
- L133 ANSWER 435 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Utilization of malonyl-CoA for the biosynthesis of β - carotene and ergosterol in cell-free preparations from *Blakeslea trispora*
 SO Acta Chemica Scandinavica (1947-1973) (1970), 24(7), 2361-5
 CODEN: ACSAA4; ISSN: 0001-5393
 AU Neujahr, Halina Y.; Bjork, Lars
 AN 1971:60949 HCAPLUS
 DN 74:60949
- L133 ANSWER 436 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Structure and synthesis of new phenolic carotenoids from *Streptomyces mediolani*
 SO Gazzetta Chimica Italiana (1970), 100(6), 581-90
 CODEN: GCITA9; ISSN: 0016-5603
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 AN 1971:23040 HCAPLUS
 DN 74:23040
- L133 ANSWER 437 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Anaerobic growth of purple nonsulfur bacteria under dark conditions
 SO Journal of Bacteriology (1970), 104(1), 462-72
 CODEN: JOBAAY; ISSN: 0021-9193
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 CODEN: PHYVAP. ISSN: 0031-9368.
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CODEN: JOCRAM; ISSN: 0021-9673
AU Schulte, Karl E.; Ruecker, G.
AN 1970:484464 HCAPLUS
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- L133 ANSWER 440 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Use of a polarographic method in controlling vitamin production
SO Problemy Analiticheskoi Khimii (1970), 1, 177-84
CODEN: PYAKAP; ISSN: 0370-2677
AU Devyatnin, V. A.; Solunina, I. A.
AN 1971:146292 HCAPLUS
DN 74:146292
- L133 ANSWER 441 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Catalytic ene **synthesis** with carbonyl compounds. Addition of **isoprene** to formaldehyde
SO Doklady Akademii Nauk SSSR (1970), 190(1), 102-3 [Chem]
CODEN: DANKAS; ISSN: 0002-3264
AU Klimova, E. I.; Arbuzov, Yu. A.
AN 1970:111143 HCAPLUS
DN 72:111143
- L133 ANSWER 442 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Effectiveness of various sources of vitamin A in poultry rations
SO Vestnik Sel'skokhozyaistvennoi Nauki (Moscow) (1970), 15(9), 73-82
CODEN: VSNLAF; ISSN: 0206-6335
AU Tkachev, I. F.; Semin, V. N.; Bukhtiyarova, O. N.
AN 1971:10902 HCAPLUS
DN 74:10902
- L133 ANSWER 443 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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Production of isoprene by oxidative dehydrogenation
SO Kogyo Kagaku Zasshi (1969), 72(12), 2571-7
CODEN: KGKZA7; ISSN: 0368-5462
AU Nishikawa, Eiichiro; Ueki, Toru; Mori, Goichi; Morita, Yoshiro
AN 1970:99910 HCAPLUS
DN 72:99910
- L133 ANSWER 444 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of β - **carotene** by cell-free extracts of *Phycomyces blakesleeanus*
SO Journal of Biological Chemistry (1969), 237, 681-6
CODEN: JBCHA3; ISSN: 0021-9258
AU Yokoyama, H.; Nakayama, T. O. M.; Chichester, C. O.
AN 1962:405959 HCAPLUS
DN 57:5959
OREF 57:1273b-e
- L133 ANSWER 445 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Natural [poly(**isoprenyl**)]phenols. **Synthesis** of grifolin and ostruthin
SO Gazzetta Chimica Italiana (1969), 99(3), 308-15
CODEN: GCITA9; ISSN: 0016-5603
AU Cardillo, Giuliana; Cricchio, Renato; Merlini, Lucio; Nasini, Gianluca
AN 1969:422201 HCAPLUS
DN 71:22201
- L133 ANSWER 446 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Function of sterols in Mycoplasma
SO Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin, Klasse

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CODEN: ADWMAX; ISSN: 0568-4250
- AU Smith, Paul Francis
AN 1969:457813 HCAPLUS
DN 71:57813
- L133 ANSWER 447 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Radioisotopic studies on the biosynthesis of the glyceryl diether lipids of Halobacterium cutirubrum
SO Canadian Journal of Biochemistry (1968), 46(8), 971-7
CODEN: CJBIAE; ISSN: 0008-4018
AU Kates, M.; Wassef, M. K.; Kushner, D. J.
AN 1968:457576 HCAPLUS
DN 69:57576
- L133 ANSWER 448 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of N6-(Δ2-isopentenyl)adenosine. Precursor relation of acetate and mevalonate to the Δ2-isopentenyl group of the transfer ribonucleic acid of microorganisms
SO Biochemistry (1968), 7(3), 940-4
CODEN: BICHAW; ISSN: 0006-2960
AU Fittler, Fritz; Kline, Larry K.; Hall, Ross Hume
AN 1968:84264 HCAPLUS
DN 68:84264
- L133 ANSWER 449 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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SO Comptes Rendus des Seances de l'Academie des Sciences, Serie D: Sciences Naturelles (1968), 267(7), 733-6
CODEN: CHDDAT; ISSN: 0567-655X
AU Moneger, Rene
AN 1969:896 HCAPLUS
DN 70:896
- L133 ANSWER 450 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of β-carotene from one-carbon units
SO Pharmazie (1968), 23(10), 594
CODEN: PHARAT; ISSN: 0031-7144
AU Reichel, Ludwig; Schreiber, Gerhard
AN 1969:17697 HCAPLUS
DN 70:17697
- L133 ANSWER 451 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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SO Physiologie Vegetale (1968), 6(2), 165-202
CODEN: PHYVAP; ISSN: 0031-9368
AU Moneger, Rene
AN 1968:457482 HCAPLUS
DN 69:57482
- L133 ANSWER 452 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Secondary carotenoids in green algae. I. Chemistry, occurrence, and factors controlling the biogenesis of these polyenes
SO (1968), 61(1), 81-102
AU Czygan, Franz C.
AN 1968:93812 HCAPLUS
DN 68:93812
- L133 ANSWER 453 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Thermal decomposition of trimethylethylene glycol acetates
SO Azerbaidzhanskii Khimicheskii Zhurnal (1968), (1), 61-3

- CODEN: AZKZAU; ISSN: 0005-2531
AU Movsumzade, M. M.; Ismailova, F. E.
AN 1968:486231 HCAPLUS
DN 69:86231
- L133 ANSWER 454 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Purification of waste water in the first step of **isoprene synthesis** from isobutylene and formaldehyde
SO U.S.S.R.
From: Izobret., Prom. Obraztsy, Tovarnye Znaki 1967, 44(6), 188.
CODEN: URXXAF
IN Zheleznyak, A. S.; Nentsov, M. S.; Ogorodnikov, S. K.; Lesteva, T. M.; Pokorskii, V. N.; Trenke, K. M.; Shapiro, L. P.; Yablochkina, M. N.
AN 1968:81248 HCAPLUS
DN 68:81248

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PI SU 193367		19670302	SU	19640603
- L133 ANSWER 455 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI 4-Hydroxyretinal
SO Fr., 3 pp.
CODEN: FRXXAK
IN Reedy, Albert J.
AN 1968:29903 HCAPLUS
DN 68:29903

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI FR 1484573		19670609	GB	
GB 1147675			US	
US 3359323		19670000		
- L133 ANSWER 456 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Cyclization of dehydronegerolidol **acetate** as a route to the **synthesis** of cyclic **isoprenoids**
SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1967), (5), 1144-6
CODEN: IASKA6; ISSN: 0002-3353
AU Semenovskii, A. V.; Smit, V. A.; Chernova, T. N.; Kucherov, V. F.
AN 1968:2997 HCAPLUS
DN 68:2997
- L133 ANSWER 457 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Bacterial **carotenoids**. XXIII. **Carotenoids** of Thiorrhodaceae. 6. Total **synthesis** of okenone and related compounds
SO Acta Chemica Scandinavica (1947-1973) (1967), 21(4), 970-82
CODEN: ACSAA4; ISSN: 0001-5393
AU Aasen, Arne J.; Liaaen Jensen, Synnoeve
AN 1967:473716 HCAPLUS
DN 67:73716
- L133 ANSWER 458 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of dietary cholesterol and ubiquinone on **isoprene synthesis** in rativer
SO Archives of Biochemistry and Biophysics (1967), 121(1), 147-53
CODEN: ABBIA4; ISSN: 0003-9861
AU Krishnaiah, K. V.; Joshi, V. C.; Ramasarma, T.
AN 1967:451879 HCAPLUS
DN 67:51879
- L133 ANSWER 459 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biological activity of **carotenoids** in the bird
SO Zentralblatt fuer Veterinaermedizin, Reihe A (1967), 14(2), 119-28
CODEN: ZVRAAX; ISSN: 0300-8711

AU Prohaszka, Laszlo; Toth, Marton
AN 1967:419023 HCAPLUS
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L133 ANSWER 460 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Telomerization reaction of **isoprene** with acetic acid
SO Eesti NSV Teaduste Akadeemia Toimetised, Keemia, Geoloogia (1967), 16(1),
37-47
CODEN: EKEGAI; ISSN: 0424-6373
AU Erm, A.; Laats, K.
AN 1967:490950 HCAPLUS
DN 67:90950

L133 ANSWER 461 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Mechanism of diene C5H8 (**isoprene**) **production** in
illuminated leaves
SO Fiziologiya Rastenii (Moscow) (1966), 13(5), 753-61
CODEN: FZRSBV; ISSN: 0015-3303
AU Sanadze, G. A.
AN 1967:8846 HCAPLUS
DN 66:8846

L133 ANSWER 462 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Influence of lipid components of Mycoplasma laidlawii membranes on osmotic
fragility of cells
SO Journal of Bacteriology (1966), 91(2), 609-16
CODEN: JOBAAY; ISSN: 0021-9193
AU Razin, S.; Tourtellotte, M. E.; McElhaney, R. N.; Pollack, J. D.
AN 1966:53896 HCAPLUS
DN 64:53896
OREF 64:10115b-d

L133 ANSWER 463 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Role of **carotenoids** in egg **production** and in the
liveability of baby chicks
SO Magyar Allatorvosok Lapja (1966), 21(12), 552-5
CODEN: MGALA5; ISSN: 0025-004X
AU Prohaszka, Laszlo; Toth, Marton
AN 1967:83546 HCAPLUS
DN 66:83546

L133 ANSWER 464 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** in the **carotenoids** series. XX. Novel
syntheses of apocarotenoids
SO Helvetica Chimica Acta (1966), 49(1), 369-90
CODEN: HCACAV; ISSN: 0018-019X
AU Schwieder, U.; Gutmann, H.; Lindlar, H.; Marret, R.; Rigassi, N.; Ruegg,
R.; Schaeren, S. F.; Isler, O.
AN 1966:68009 HCAPLUS
DN 64:68009
OREF 64:12734b-h,12735a-d

L133 ANSWER 465 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** of **carotenoidal** compounds. II. Preparation
of polyene(benzo)fulvenes
SO Recueil des Travaux Chimiques des Pays-Bas (1966), 85(3), 339-42
CODEN: RTCPA3; ISSN: 0165-0513
AU Haeck, H. H.; Kralt, T.
AN 1966:420974 HCAPLUS
DN 65:20974
OREF 65:3915g-h,3916a-c

L133 ANSWER 466 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biogenesis of **carotenoids** in Trentepohlia aurea

SO Zeitschrift fuer Pflanzenphysiologie (1966), 55(1), 59-64
CODEN: ZSPPAD; ISSN: 0044-328X
AU Czygan, Franz Christian; Kalb, Klaus
AN 1966:475605 HCAPLUS
DN 65:75605
OREF 65:14151e-f

L133 ANSWER 467 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Comtemporary notions on the biosynthesis of **carotenoids**
SO Ukrains'kii Botanichnii Zhurnal (1966), 23(2), 3-11
From: Ref. Zh., Biol. Khim. 1967, Abstr. No. 2F803
CODEN: UKBZAW; ISSN: 0372-4123
AU Drokova, G.
AN 1967:112109 HCAPLUS
DN 66:112109

L133 ANSWER 468 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Quaternary ionylidenethylphosphonium salts
SO 11 pp.
IN Nuerenbach, Axel; Sarnecki, Wilhelm; Reif, Werner
AN 1965:498600 HCAPLUS
DN 63:98600
OREF 63:18156c-f
PATENT NO. KIND DATE APPLICATION NO. DATE
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PI FR 1395458 19650409 FR

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TI Xanthones. VI. Claisen rearrangements, selective demethylations, and synthesis of dihydroisojacareubin and alvaxanthone trimethyl ether
SO Tetrahedron (1965), 21(9), 2653-69
CODEN: TETRAB; ISSN: 0040-4020
AU Burling, E. D.; Jefferson, A.; Scheinmann, F.
AN 1965:498140 HCAPLUS
DN 63:98140
OREF 63:18011a-h,18012a-e

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TI **Carotenoids** and related compounds. XI. **Syntheses of δ - carotene and ϵ - carotene**
SO Journal of the Chemical Society, Abstracts (1965), (March), 2019-26
CODEN: JCSAAZ; ISSN: 0590-9791
AU Manchand, P. S.; Ruegg, R.; Schwieder, U.; Siddons, P. T.; Weedon, B. C. L.
AN 1965:74391 HCAPLUS
DN 62:74391
OREF 62:13187b-d

L133 ANSWER 471 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Comparative biosynthesis of mevalonic acid by Mycoplasma
SO Journal of Bacteriology (1965), 89(1), 146-53
CODEN: JOBAAY; ISSN: 0021-9193
AU Smith, Paul F.; Henrikson, C. V.
AN 1965:24065 HCAPLUS
DN 62:24065
OREF 62:4353e-g

L133 ANSWER 472 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Vitamin A and **isoprenoid synthesis** in the rat
SO Biochemical Journal (1965), 95(1), 138-43
CODEN: BIJOAK; ISSN: 0264-6021
AU Diplock, A. T.; Green, J.; Bunyan, J.
AN 1965:61219 HCAPLUS
DN 62:61219

OREF 62:10899c-d

L133 ANSWER 473 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The lipase and pigments of staphylococci
SO Annals of the New York Academy of Sciences (1965), 128(1), 132-51
CODEN: ANYAA9; ISSN: 0077-8923
AU Stewart, Gordon T.
AN 1965:501202 HCPLUS
DN 63:101202
OREF 63:18681b-d

L133 ANSWER 474 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of ubiquinone (coenzyme Q) in microorganisms
SO Bulletin of the National Institute of Sciences of India (1965), No. 28,
25-31
CODEN: BNSIAE; ISSN: 0027-9528
AU Jayaraman, J.; Raman, Tarakad S.
AN 1967:26725 HCPLUS
DN 66:26725

L133 ANSWER 475 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** of β - carotene and lycopene
from 4-octene-2,7-dione
SO Justus Liebigs Annalen der Chemie (1965), 684, 14-24
CODEN: JLACBF; ISSN: 0075-4617
AU Kabbe, Hans Joachim; Truscheit, Ernst; Eiter, Karl
AN 1965:431860 HCPLUS
DN 63:31860
OREF 63:5688e-h,5689a-c

L133 ANSWER 476 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Carotenoids and related compounds. XII. **Synthesis** of
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SO Acta Chemica Scandinavica (1964), 18(7), 1739-44
CODEN: ACHSE7; ISSN: 0904-213X
AU Bonnett, R.; Spark, A. A.; Weedon, B. C. L.
AN 1965:439278 HCPLUS
DN 63:39278
OREF 63:7052f-h,7053a-e

L133 ANSWER 477 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI 3-Methyl-3-buten-1-ol acetate and isoprene glycol
diacetate
SO 3 pp.
AN 1963:415164 HCPLUS
DN 59:15164
OREF 59:2653h,2654a
PATENT NO. KIND DATE APPLICATION NO. DATE
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PI GB 918962 19630220 GB

L133 ANSWER 478 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Vitamin A intermediates
SO 6 pp.
IN Truscheit, Ernst; Eiter, Karl; Oediger, Hermann; Stein, Eberhard; Kabbe,
Hans J.; Lorenz, Rudolf
AN 1963:468787 HCPLUS
DN 59:68787
OREF 59:12661f-h,12662a
PATENT NO. KIND DATE APPLICATION NO. DATE
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PI DE 1149353 19630530 DE 19600803
GB 952498 GB
US 3247239 1966 US

L133 ANSWER 479 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Asymmetrical incorporation of acetate-14C into β-carotene bio-synthesized by Phycomyces blakesleeanus
SO Proceedings of the Society for Experimental Biology and Medicine (1963), 114, 444-7
CODEN: PSEBAA; ISSN: 0037-9727
AU Lotspeich, F. J.; Krause, R. F.; Lilly, V. G.; Barnett, H. L.
AN 1964:32973 HCAPLUS
DN 60:32973
OREF 60:5916g-h

L133 ANSWER 480 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The incorporation of C14O2 acetate-2-C14, and mevalonate-2-C14 into the carotenoids of mature tomato leaves
SO Ann. Physiol. Vegetale (1963), 5(2), 115-40
AU Costes, C.
AN 1963:464175 HCAPLUS
DN 59:64175
OREF 59:11895g-h,11896a

L133 ANSWER 481 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Action of diterpene alcohols on the biosynthesis of carotenoids and phytol, using acetate-2-C14 in maize plantules
SO Compt. Rend. (1962) 355-7
AU Costes, Claude
AN 1962:485298 HCAPLUS
DN 57:85298
OREF 57:17082h-i

L133 ANSWER 482 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The effect of diphenylamine on carotenoid, sterol, and fatty acid synthesis in Phycomyces blakesleeanus
SO Archives of Biochemistry and Biophysics (1962), 97, 138-45
CODEN: ABBIA4; ISSN: 0003-9861
AU Olson, James Allen; Knizley, Homer, Jr.
AN 1962:412893 HCAPLUS
DN 57:12893
OREF 57:2657c-e

L133 ANSWER 483 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Partial syntheses of carotenes by means of lead tetraacetate
SO Rev. Chim., Acad. Rep. Populaire Roumaine (1962), 7(1), 79-84
AU Bodea, C.; Nicoara, E.
AN 1963:435760 HCAPLUS
DN 59:35760
OREF 59:6450f-h

L133 ANSWER 484 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Improvement in synthesis of vitamin A acid and related compounds
IN Pommer, Horst; Sarnecki, Wilhelm
AN 1962:67055 HCAPLUS
DN 56:67055
OREF 56:12960g-i,12961a-i,12962a-i,12963a,12964a
PATENT NO. KIND DATE APPLICATION NO. DATE
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PI US 3006939 19611031 US

L133 ANSWER 485 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Influence of insect lures on hyphal growth and sporulation of Choanephora trispore
SO Canadian Journal of Microbiology (1961), 7, 807-13
CODEN: CJMIAZ; ISSN: 0008-4166

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AN 1962:33992 HCAPLUS
DN 56:33992
OREF 56:6468c-f

L133 ANSWER 486 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Mevalonic acid and **carotenogenes** in carrot extracts
SO Naturwissenschaften (1961), 48, 738-9
CODEN: NATWAY; ISSN: 0028-1042
AU Modi, V. V.; Patwa, D. K.
AN 1962:80803 HCAPLUS
DN 56:80803
OREF 56:15806f-g

L133 ANSWER 487 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Acetate** incorporation into the **carotenoids** of
Chromatium
SO Biochimica et Biophysica Acta (1961), 54, 525-32
CODEN: BBACAO; ISSN: 0006-3002
AU Benedict, C. R.; Fuller, R. C.; Bergeron, J. A.
AN 1962:55919 HCAPLUS
DN 56:55919
OREF 56:10683h-i

L133 ANSWER 488 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Glucose as a carbon source for **carotene synthesis** in
tomatoes
SO Archives of Biochemistry and Biophysics (1961), 93, 231-7
CODEN: ABBIA4; ISSN: 0003-9861
AU Purcell, Albert E.; Thompson, Guy A., Jr.
AN 1961:112745 HCAPLUS
DN 55:112745
OREF 55:21255c-e

L133 ANSWER 489 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Factors affecting the **production** of **carotene** by
Choanephora cucurbitarum
SO Mycologia (1961), Volume Date 1960, 52, 80-96
CODEN: MYCOAE; ISSN: 0027-5514
AU Chu, F. S.; Lilly, Virgil Greene
AN 1962:55975 HCAPLUS
DN 56:55975
OREF 56:10696b-f

L133 ANSWER 490 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Enzymic **synthesis** of **carotenoids** in cell-free extracts
of carrot
SO Enzymologia (1961), 23, 27-34
CODEN: ENZYAS; ISSN: 0013-9424
AU Modi, V. V.; Patwa, D. K.
AN 1961:100109 HCAPLUS
DN 55:100109
OREF 55:18888e

L133 ANSWER 491 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI γ,γ -Dimethylallyl **acetate**
IN Samokhvalov, G. I.; Miropol'skaya, M. A.; Fedotova, N. I.; Anosov, V. I.;
Nashatyrev, A. N.; Savostin, A. P.
AN 1960:80369 HCAPLUS
DN 54:80369
OREF 54:15248g-i

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI SU 125800		19600201	SU	

L133 ANSWER 492 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Enzymic synthesis and destruction of carotenoids in mango extracts
SO Experientia (1960), 16, 352
CODEN: EXPEAM; ISSN: 0014-4754
AU Modi, V. V.; Patwa, D. K.
AN 1961:23351 HCAPLUS
DN 55:23351
OREF 55:4663a-b

L133 ANSWER 493 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Carotenoid syntheses. XXVIII. Syntheses of 4-hydroxy derivatives of β -apocarotenals and β -apocarotenic acids as well as the preparation of 3,4-dehydro- β -apocarotenals and 3,4-dehydro- β -apocarotenic acids
SO Helvetica Chimica Acta (1960), 43, 94-101
CODEN: HCACAV; ISSN: 0018-019X
AU Entschel, R.; Karrer, P.
AN 1961:131429 HCAPLUS
DN 55:131429
OREF 55:24822b-f

L133 ANSWER 494 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The production of carotene by Phycomyces blakesleeanus. II. The production of radioactive β -carotene by using Phycomyces blakesleeanus
SO West Va., Univ. Agr. Expt. Sta., Bull. (1960), No. 441T, 61-76
From: Biol. Abstr. 35, Abstr. No. 64209(1960).
AU Lilly, Virgil Greene; Barnett, H. L.; Krause, R. F.
AN 1961:138181 HCAPLUS
DN 55:138181
OREF 55:26134i,26135a-b

L133 ANSWER 495 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of oxygenated carotenoids
SO Voprosy Khim. Terpenov i Terpenoidov, Akad. Nauk Litovsk. S.S.R., Trudy Vsesoyuz. Soveshchaniya, Vil'nyus (1960), Volume Date 1959 43-9
AU Samokhvalov, G. I.; Vakulova, L. A.
AN 1961:93066 HCAPLUS
DN 55:93066
OREF 55:17490g-i

L133 ANSWER 496 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Carotenogenesis. XXVI. The incorporation of acetate-C14, mevalonate-C14 and C14O2 into β -carotene by the fungus Phycomyces blakesleeanus
SO Biochemical Journal (1960), 76, 5-10
CODEN: BIJOAK; ISSN: 0264-6021
AU Braithwaite, G. D.; Goodwin, T. W.
AN 1960:130324 HCAPLUS
DN 54:130324
OREF 54:25062f-h

L133 ANSWER 497 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Carotenogenesis. XXV. The incorporation of acetate-1-C14, acetate-2-C14 and C14O2 into lycopene by tomato slices
SO Biochemical Journal (1960), 76, 1-5
CODEN: BIJOAK; ISSN: 0264-6021
AU Braithwaite, G. D.; Goodwin, T. W.
AN 1960:130323 HCAPLUS
DN 54:130323
OREF 54:25062d-f

L133 ANSWER 498 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of **carotenes** in carrot extracts
SO Nature (London, United Kingdom) (1959), 184(Suppl. No.13), 983-4
CODEN: NATUAS; ISSN: 0028-0836
AU Modi, V. V.; Patwa, D. K.
AN 1960:63306 HCPLUS
DN 54:63306
OREF 54:12276c-d

L133 ANSWER 499 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the **carotenoid** series. XV.
Syntheses in the β , **carotenal** and β -
carotenol series
SO Helvetica Chimica Acta (1959), 42, 854-64
CODEN: HCACAV; ISSN: 0018-019X
AU Ruegg, R.; Montavon, M.; Ryser, G.; Saucy, G.; Schwieder, U.; Isler, O.
AN 1960:2428 HCPLUS
DN 54:2428
OREF 54:625b-i

L133 ANSWER 500 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Comparison of the incorporation of labeled CO₂, **acetate** and
mevalonate into **carotenoids** in a number of **carotenogenic**
systems
SO C I B A Foundation Symposium Biosynthesis of Terpenes and Sterols (1959),
Volume Date 1958 279-91, discussion 291-4
AU Goodwin, T. W.
AN 1960:17695 HCPLUS
DN 54:17695
OREF 54:3602d-i,3603a

L133 ANSWER 501 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of **carotenoids** by microorganisms
SO Ciba Foundation Symposium Biosynthesis of Terpenes and Sterols (1959),
Volume Date 1958 267-76, discussion 277-8
AU Grob, E. C.
AN 1960:29345 HCPLUS
DN 54:29345
OREF 54:5810a-d

L133 ANSWER 502 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI β - **Carotene** fermentation
SO Rept. Taiwan Sugar Expt. Sta. (Taiwan) (1959), 20, 91-100
From: Biol. Abstr. 36, Abstr. No. 18343(1961).
AU Su, K. C.
AN 1962:471698 HCPLUS
DN 57:71698
OREF 57:14290a-c

L133 ANSWER 503 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Thermal rearrangement of ergosterol peroxide
SO Ann. (1959), 620, 46-62
AU Bergmann, Werner; Meyers, Martin B.
AN 1959:112015 HCPLUS
DN 53:112015
OREF 53:20132i,20133a-i,20134a

L133 ANSWER 504 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenoid syntheses.** XXIV. Further reactions of
 β - and α - **carotene** with bromosuccinimide
SO Helvetica Chimica Acta (1958), 41, 983-7
CODEN: HCACAV; ISSN: 0018-019X
AU Entschel, R.; Karrer, P.

AN 1958:113912 HCAPLUS
DN 52:113912
OREF 52:20234h-i,20235a-b

L133 ANSWER 505 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis.** XXV. The incorporation of C14-carbon dioxide,
acetate-C14, and mevalonate-C14 into β - **carotene** by
illuminated etiolated maize seedlings

SO Biochemical Journal (1958), 70, 612-17
CODEN: BIJOAK; ISSN: 0264-6021

AU Goodwin, T. W.

AN 1959:12402 HCAPLUS

DN 53:12402

OREF 53:2367c-f

L133 ANSWER 506 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Carotenoid** biosynthesis in tomatoes

SO Proceedings of the American Society for Horticultural Science (1958), 71,
349-55

CODEN: PASHA6; ISSN: 0099-4065

AU Francis, F. J.

AN 1958:105417 HCAPLUS

DN 52:105417

OREF 52:18692i,18693a-b

L133 ANSWER 507 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI The chemical mechanism of acetoacetic acid synthesis in the liver

SO Biochemische Zeitschrift (1958), 330, 269-95

CODEN: BIZEA2; ISSN: 0366-0753

AU Lnen, Feodor; Henning, Ulf; Bublitz, Clark; Sorbo, Bo; Kroplin-Rueff,
Luisstrand

AN 1961:60388 HCAPLUS

DN 55:60388

OREF 55:11586a-e

L133 ANSWER 508 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Effect of light and temperature on the **production** of
carotenoid pigments by + and - sexes of *Phycomyces blakes-leeanus*

SO Proc. West Va. Acad. Sci. (1958), Volume Date 1957-1958, 29/30, 25-31

AU Lilly, V. G.; Barnett, H. L.; Krause, R. F.

AN 1960:23855 HCAPLUS

DN 54:23855

OREF 54:4771g-i,4772a

L133 ANSWER 509 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Unsaturated compounds

AN 1958:6619 HCAPLUS

DN 52:6619

OREF 52:1223i,1224a-c

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI GB 775060		19570515	GB	
US 2917539		1959	US	

L133 ANSWER 510 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Total **synthesis** of **isoprenoid** alcohols

SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1957) 1267-70

CODEN: IASKA6; ISSN: 0002-3353

AU Nazarov, I. N.; Gusev, B. P.; Gunar, V. I.

AN 1958:34658 HCAPLUS

DN 52:34658

OREF 52:6150h-i,6151a-g

L133 ANSWER 511 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

- TI **Syntheses** in the **carotenoid** series. VIII. Total
synthesis of cryptoxanthin and a further synthesis of zeaxanthin
 SO Helvetica Chimica Acta (1957), 40, 456-67
 CODEN: HCACAV; ISSN: 0018-019X
 AU Isler, O.; Lindlar, H.; Montavon, M.; Ruegg, R.; Saucy, G.; Zeller, P.
 AN 1957:62225 HCAPLUS
 DN 51:62225
 OREF 51:11293i,11294a-f
- L133 ANSWER 512 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Xanthinin, a monocarbocyclic sesquiterpenoid lactone
 SO Chemistry & Industry (London, United Kingdom) (1957) 328
 CODEN: CHINAG; ISSN: 0009-3068
 AU Geissman, T. A.; Deuel, P. G.
 AN 1957:62224 HCAPLUS
 DN 51:62224
 OREF 51:11293f-i
- L133 ANSWER 513 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Biosynthesis of polyisoprenoids. I. Synthesis of β -hydroxy- β -methylglutaric acid semialdehyde
 SO Ann. (1957), 608, 71-8
 AU Eggerer, Hermann; Lynen, Feodor; Rauenbusch, Erich; Kessel, Ingrid
 AN 1958:77035 HCAPLUS
 DN 52:77035
 OREF 52:13633h-i,13634a-d
- L133 ANSWER 514 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Metabolism of **acetate** in Hevea brasiliensis
 SO Nature (London, United Kingdom) (1957), 180, 37
 CODEN: NATUAS; ISSN: 0028-0836
 AU Patrick, A. D.
 AN 1958:73021 HCAPLUS
 DN 52:73021
 OREF 52:13012a-c
- L133 ANSWER 515 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Mevalonic acid and **carotenogenesis** in Phycomyces blakesleeanus
 SO Biochemical Journal (1957), 66, 31P-32P
 CODEN: BIJOAK; ISSN: 0264-6021
 AU Braithwaite, G. D.; Goodwin, T. W.
 AN 1959:23880 HCAPLUS
 DN 53:23880
 OREF 53:4430a-c
- L133 ANSWER 516 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Polyene diether acetals and their manufacture and conversion into polyene aldehydes
 AN 1957:30032 HCAPLUS
 DN 51:30032
 OREF 51:5835b-f
- | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------|-------|----------|-----------------|-------|
| ----- | ----- | ----- | ----- | ----- |
| PI GB 753635 | | 19560725 | GB | |
- L133 ANSWER 517 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI 2,7-Dimethyl-2,6-octadien-4-yne-1,8-dial
 AN 1956:89478 HCAPLUS
 DN 50:89478
 OREF 50:16862a-b
- | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------|-------|----------|-----------------|-------|
| ----- | ----- | ----- | ----- | ----- |
| PI GB 744890 | | 19560215 | GB | |

L133 ANSWER 518 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The synthesis and configuration of neo-b vitamin A and neoretinene b
SO Journal of the American Chemical Society (1956), 78, 2651-2
CODEN: JACSAT; ISSN: 0002-7863
AU Oroshnik, Wm.
AN 1956:81938 HCPLUS
DN 50:81938
OREF 50:15467h-i,15468a-c

L133 ANSWER 519 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - carotene by Mucor hiemalis. IV. The part played by acetic acid in the synthesis of the carotene molecule, especially positions 3,4,6 and 3',4',6', studied with the aid of carbon 14-labeled acetic acid
SO Helv. Chim. Acta (1956), 39, 1975-80
AU Grob, E. C.; Butler, R.
AN 1957:17881 HCPLUS
DN 51:17881
OREF 51:3741h-i

L133 ANSWER 520 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Carotenogenesis. XVIII. Carotenoid production by a strongly chromogenic bacterium isolated from butter
SO Biochemical Journal (1956), 62, 275-81
CODEN: BIJOAK; ISSN: 0264-6021
AU Goodwin, T. W.; Jamikorn, Malini
AN 1956:40957 HCPLUS
DN 50:40957
OREF 50:7935c-f

L133 ANSWER 521 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses in the carotenoid series. II.
Synthesis of various ring components
SO Helvetica Chimica Acta (1956), 39, 259-73
CODEN: HCACAV; ISSN: 0018-019X
AU Isler, O.; Montavon, M.; Ruegg, R.; Zeller, P.
AN 1956:81940 HCPLUS
DN 50:81940
OREF 50:15468h-i,15469a-i,15470a-b

L133 ANSWER 522 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Some new aspects of acetic acid involved in biosynthesis of β - carotene
SO Chimia (Switz.) (1956), 10, 258-9
AU Grob, E. C.; Butler, R.
AN 1957:91830 HCPLUS
DN 51:91830
OREF 51:16696b-d

L133 ANSWER 523 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses in the carotenoid series. XXXIV.
Syntheses of C14- and C15-aldehydes
SO Ann. (1956), 598, 51-64
AU Inhoffen, Hans Herloff; Erdmann, Dietrich
AN 1956:81949 HCPLUS
DN 50:81949
OREF 50:15474c-i,15475a-f

L133 ANSWER 524 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI An alternate fatty acid cycle involving thioesters of pantetheine
SO Journal of the American Chemical Society (1955), 77, 5194-5
CODEN: JACSAT; ISSN: 0002-7863
AU Stern, Joseph R.
AN 1956:5051 HCPLUS

DN 50:5051
OREF 50:1107b-c

L133 ANSWER 525 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - carotene by Mucor hiemalis. The use
of acetic acid in the synthesis of the carotene
molecule, especially in positions 14-15, 14'-15' and 10-11, 10'-11',
investigated with C14-acetic acid. III
SO Helvetica Chimica Acta (1955), 38, 1313-16
CODEN: HCACAV; ISSN: 0018-019X
AU Grob, E. C.; Butler, R.
AN 1955:78595 HCPLUS
DN 49:78595
OREF 49:14904d-f

L133 ANSWER 526 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Carotenogenesis. XV. The role of carboxylic acids in the
biosynthesis of β - carotene by Phycomyces blakesleeanus
SO Biochemical Journal (1955), 60, 649-55
CODEN: BIJOAK; ISSN: 0264-6021
AU Friend, J.; Goodwin, T. W.; Griffiths, L. A.
AN 1955:78514 HCPLUS
DN 49:78514
OREF 49:14886e-h

L133 ANSWER 527 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Evaluation of methyl esters, by-product of the extraction of
carotene from palm oil
SO Oleagineux (1955), 10, 99-105, 193-6, 269-73
CODEN: OLEAAF; ISSN: 0030-2082
AU Jorand, J.
AN 1955:72026 HCPLUS
DN 49:72026
OREF 49:13670e-g

L133 ANSWER 528 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Carotenogenesis. Synthesis of β -methylcrotonic
acid by Phycomyces blakesleeanus
SO Proceedings of the International Congress of Biochemistry (1955) 87
CODEN: 18USAR
AU Goodwin, T. W.; Modi, V. V.
AN 1956:74532 HCPLUS
DN 50:74532
OREF 50:14052g-i

L133 ANSWER 529 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of polyenes. VI. Isoprenoid polyenes
containing sterically hindered cis configurations
SO Journal of the American Chemical Society (1954), 76, 5719-36
CODEN: JACSAT; ISSN: 0002-7863
AU Oroshnik, Wm.; Mebane, Alexander D.
AN 1955:77776 HCPLUS
DN 49:77776
OREF 49:14702g-i, 14703a-i, 14704a-i, 14705a-i, 14706a-b

L133 ANSWER 530 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - carotene by Mucor hiemalis. The use
of acetic acid in the synthesis of the carotene
molecule, especially the ionone grouping, investigated with C14-acetic
acid. II
SO Helvetica Chimica Acta (1954), 37, 1908-12
CODEN: HCACAV; ISSN: 0018-019X
AU Grob, E. C.; Butler, R.
AN 1955:12636 HCPLUS

DN 49:12636
OREF 49:2567g-i

L133 ANSWER 531 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The exchange of **carotenoids** in higher plants
SO Zeitschrift fuer Botanik (1954), 42, 387-435
CODEN: ZBOTA3; ISSN: 0372-8102
AU Beekmann, Helga
AN 1955:33015 HCPLUS
DN 49:33015
OREF 49:6396f-i

L133 ANSWER 532 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The effect of pantothenic acid, pantethine, and phosphorylated pantethine
on **carotenoid** formation by *Mucor hiemalis*
SO Experientia (1954), 10, 378-9
CODEN: EXPEAM; ISSN: 0014-4754
AU Grob, E. C.; Grubach, V.; Schopfer, W. H.
AN 1955:5037 HCPLUS
DN 49:5037
OREF 49:1113e-f

L133 ANSWER 533 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β -**carotene** by *Mucor hiemalis*. The use
of acetic acid in the **synthesis** of the **carotene**
molecule investigated with C14-labeled acetic acid
SO Experientia (1954), 10, 250-1
CODEN: EXPEAM; ISSN: 0014-4754
AU Grob, E. C.; Butler, R.
AN 1954:60664 HCPLUS
DN 48:60664
OREF 48:10796g-h

L133 ANSWER 534 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Studies of cholesterol biosynthesis. II. Distribution of **acetate**
carbon in the ring structure
SO Biochemical Journal (1953), 54, 597-601
CODEN: BIJOAK; ISSN: 0264-6021
AU Cornforth, J. W.; Hunter, G. D.; Popjak, G.
AN 1953:66351 HCPLUS
DN 47:66351
OREF 47:11279a-c

L133 ANSWER 535 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of **carotenoids** by *Phycomyces blakesleeanus*
SO Internationale Zeitschrift fuer Vitaminforschung (1952), 23, 484-9
CODEN: IZVIAK; ISSN: 0020-9406
AU Grob, E. C.; Schopfer, W. H.; Poretti, G. G.
AN 1952:54871 HCPLUS
DN 46:54871
OREF 46:9156h-i

L133 ANSWER 536 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of **carotenoids**
SO Biochemische Zeitschrift (1952), 323, 376-81
CODEN: BIZEA2; ISSN: 0366-0753
AU Arnaki, M.; Stary, Z.
AN 1953:29064 HCPLUS
DN 47:29064
OREF 47:4951b-d

L133 ANSWER 537 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis** in *Phycomyces blakesleeanus*
SO Congres International de Biochimie, Resumes des Communications (1952) 210

CODEN: 20DPAQ
AU Goodwin, T. W.; Griffiths, L. A.; Jamikorn, Malini; Willmer, J. S.
AN 1956:1924 HCAPLUS
DN 50:1924
OREF 50:436c-d

L133 ANSWER 538 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the **carotenoid** series. XXIV. Attempts to prepare 3,3',4,4'-bisdehydro- β - **carotene**
SO Ann. (1952), 578, 177-87
AU Inhoffen, Hans H.; Arend, Wolfgang
AN 1954:3541 HCAPLUS
DN 48:3541
OREF 48:652f-i,653a-g

L133 ANSWER 539 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The **synthesis** of β - **carotene** by **Phycomyces** cultured in a medium containing sodium **acetate** as the only source of carbon
SO Experientia (1952), 8, 140
CODEN: EXPEAM; ISSN: 0014-4754
AU Shopfer, W. H.; Grob, E. C.
AN 1952:67547 HCAPLUS
DN 46:67547
OREF 46:11310c-d

L133 ANSWER 540 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Investigation of the biosynthesis of **carotenoids** by **Sarcina lutea**
SO Folia Pharmaceutica (Istanbul) (1952), 2, 115-18
CODEN: FOPMAS; ISSN: 0428-8300
AU Arnaki, M.; Stary, Z.
AN 1953:29088 HCAPLUS
DN 47:29088
OREF 47:4955a-c

L133 ANSWER 541 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The preparation of cyclic vinyl ethers
SO Journal of the American Chemical Society (1951), 73, 913-14
CODEN: JACSAT; ISSN: 0002-7863
AU Parham, Wm. E.; Holmquist, Howard E.
AN 1951:46987 HCAPLUS
DN 45:46987
OREF 45:7998c-g

L133 ANSWER 542 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The mechanism of rubber formation in the guayule. III. Experiments with isotopic carbon
SO Archives of Biochemistry and Biophysics (1951), 31, 234-47
CODEN: ABBIA4; ISSN: 0003-9861
AU Arreguin, Barbarin; Bonner, James; Wood, Betty Jean
AN 1951:31405 HCAPLUS
DN 45:31405
OREF 45:5439a-c

L133 ANSWER 543 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The **production** of marked β - **carotene** by **Phycomyces blakesleeanus**
SO Experientia (1951), 7, 218-19
CODEN: EXPEAM; ISSN: 0014-4754
AU Grob, E. C.; Poretti, G. G.; von Muralt, A.; Schopfer, W. H.
AN 1952:3039 HCAPLUS
DN 46:3039
OREF 46:568a-b

L133 ANSWER 544 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Ethyl sorbate in the diene synthesis
SO Journal of the American Chemical Society (1949), 71, 2865-8
CODEN: JACSAT; ISSN: 0002-7863
AU Rigg, M. Wesley; Rosenthal, Rudolph
AN 1951:5236 HCAPLUS
DN 45:5236
OREF 45:892c-h

L133 ANSWER 545 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** of isoprenoid compounds in plants
SO Journal of Chemical Education (1949), 26, 628-31
CODEN: JCEDA8; ISSN: 0021-9584
AU Bonner, James
AN 1950:17984 HCAPLUS
DN 44:17984
OREF 44:3576b-d

L133 ANSWER 546 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the carotenoid series. II.
Synthesis of a hydrocarbon, C₃₀H₄₂
SO Ann. (1948), 561, 26-31
AU Inhoffen, Hans H.; Pommer, Horst; Bohlmann, Ferdinand
AN 1949:13106 HCAPLUS
DN 43:13106
OREF 43:2588d-i

L133 ANSWER 547 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of various salts on the **synthesis** of ascorbic acid and
carotene in cress seedlings
SO Biochemical Journal (1947), 41, 197-205
CODEN: BIJOAK; ISSN: 0264-6021
AU Mapson, L. W.; Cruickshank, E. M.
AN 1948:2878 HCAPLUS
DN 42:2878
OREF 42:644h-i,645a

L133 ANSWER 548 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** of aliphatic terpene alcohols from **isoprene**
SO Ber. (1943), 76B, 831-46
AU Lennartz, Theo.
AN 1944:11772 HCAPLUS
DN 38:11772
OREF 38:1737g-i,1738a-i,1739a

L133 ANSWER 549 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the carotenoid series. V. Preparation of
higher aliphatic polyenealdehydes
SO Ann. (1941), 547, 285-02
AU Schmitt, J.; Obermeit, A.
AN 1942:41253 HCAPLUS
DN 36:41253
OREF 36:6523g-h

L133 ANSWER 550 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the carotenoid series. IV. Preparation of
ω-phenyl-and ω-furylpolyenealdehydes
SO Ann. (1941), 547, 270-84
AU Schmitt, J.
AN 1942:41252 HCAPLUS
DN 36:41252
OREF 36:6523e-g

L133 ANSWER 551 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the **carotenoid** series. III. Preparation
of a methyl homolog of dehydro- β -cyclocitral
SO Ann. (1941), 547, 256-70
AU Schmitt, J.
AN 1942:41251 HCPLUS
DN 36:41251
OREF 36:6522i,6523a-e

L133 ANSWER 552 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** of terpenes from **isoprene**
SO Ann. (1932), 496, 52-77
AU Wagner-Jauregg, T.
AN 1932:41789 HCPLUS
DN 26:41789
OREF 26:4320h-i,4321a-b

L133 ANSWER 553 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI Synthetic experiments with ethinylcarbinols. I. Transformation of
3-methyl-butanol into 3-methylbutenin, 3-methylbutanolone and its
condensation products
SO Ber. (1922), 55B, 2903-23
AU Scheibler, Helmut; Fischer, Artur
AN 1923:8065 HCPLUS
DN 17:8065
OREF 17:1419b-i,1420a-b

L133 ANSWER 554 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
TI **Making isoprene**
IN Webel, F.
AN 1914:19261 HCPLUS
DN 8:19261
OREF 8:2816d-e

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 1098859		19140602	US	

L133 ANSWER 555 OF 558 NTIS COPYRIGHT 2004 NTIS on STN
TI Biosynthesis of Membrane Lipids in Halobacterium Cutirubrum.
Reprint: Biosynthesis of Membrane Lipids in Halobacterium Cutirubrum.
NR AD-679 417/XAB; NRC-10141
9p; 1968
AU Kates, M.; Wassef, M. K.; Kushner, D. J.
AN 1969(31):02662 NTIS

L133 ANSWER 556 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI **Prodn of isoprene.**
PI JP 46000161 B (197102)*

L133 ANSWER 557 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Quat phosphonium salts as intermediates for **carotenoids**.
PI GB 1102064 A (196800)*
NL 6704300 A (196801)
US 3517067 A (197025)

L133 ANSWER 558 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI 3-methyl-but-2-en-1-ol or 3-methyl-but-2-en-1-yl.
PI BE 725088 A (196800)*
NL 6817562 A (196801)
CA 833592 A (197006)
FR 1594968 A (197042)
GB 1239434 A (197127)
DE 1643709 B (197128)
US 3655735 A (197218)

CH 525173 A (197237)
JP 48007408 B (197310)

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SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:50:51 ON 19 FEB 2004

=> d ab 34,45,49,59,71,78,80,131,216

L133 ANSWER 34 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AB The invention is concerned with a multi-stage process for **making** an oxidative metabolite of the **carotenoid lycopene**, 2,6-cyclolycopene-1,5-diol having the formula ##STR1## In this process alpha-terpinyl **acetate** is oxidatively dihydroxylated to a cyclohexanediol (IV), the cyclohexanediol (IV) is oxidatively cleaved to a ketoaldehyde (V), the ketoaldehyde (V) is subjected to an intramolecular aldol condensation to give a cyclopentanol (VI), the cyclopentanol (VI) is silylated to its silylated derivative formylcyclopentane (VII), the formylcyclopentane (VII) is subjected to a C3 -chain lengthening with acetone and simultaneously to a saponification for the cleavage of the acetyl group to give a cyclopentylbutenone (VIII), the cyclopentylbutenone (VIII) is reacted with vinyl magnesium bromide to give a pentadienol (IX), the pentadienol (IX) is converted with deprotection of the silylated hydroxy group into a phosphonium salt (X), this salt is subjected to a Wittig reaction with 2,7-dimethyl-2,4,6-octatriene-1,8-dial to give a tridecahexaenal (XII) and the tridecahexaenal (XII) is subjected to a Wittig reaction with a (3,7,11-trimethyl-dodeca-2,4,6,10-tetraenyl)triphenylphosphonium salt to give the desired 2,6-cyclolycopene-1,5-diol (II). A variant of this process, also in accordance with the invention, comprises converting the cyclopentylbutenone (VIII) into the phosphonium salt (X) via two alternative intermediates, namely a pentadienoic acid ester (XIV) and a different pentadienol (XV), into the same phosphonium salt (X). Moreover, the invention is concerned with the novel intermediates (V), (VI), (VII), (VIII), (IX), (X), (XII), (XIV) as well as (XV) and the individual process steps which lead to these novel intermediates. 2,6-cyclolycopene-1,5-diol is useful in the prevention of cancer growth in human cells.

L133 ANSWER 45 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 25
AB In summary the biosynthetic pathway for the formation of **isoprenoid** compounds in plants is similar to the pathway of sterol biosynthesis in animals and yeast. In plants, **isoprenoids** are **synthesized** from acetyl-CoA via mevalonate and isopentyl pyrophosphate to long-chain prenyl pyrophosphates. These compounds may then be metabolized to form various **isoprenoid** compounds. The bovine corpus luteum, which utilizes the Porter-Lincon pathway, has been shown to metabolize **acetate** to steroids and β -**carotene**. For example, farnesyl pyrophosphate is an intermediate in the **production** of steroids and β -**carotene**. The **synthesis** of **carotenoids** continues with the condensation of two molecules of geranylgeranyl pyrophosphate to **phytoene** (C40 hydrocarbon), phytofluene, and eventually to β -**carotene**. β -**Carotene** can then be metabolized to retinol. Retinol is important for the synthesis of cholesterol and the metabolism of various

steroids, such as pregnenolone and progesterone. The action of vitamin A on progesterone metabolism is important for embryonic development.

- L133 ANSWER 49 OF 558 MEDLINE on STN DUPLICATE 28
- AB The **inducible glnA promoter** 2 of the *E. coli* glutamine synthetase gene is suitable as an expression unit for the production of recombinant proteins at low and high cell densities. It is active when the concentration of ammonium as the sole nitrogen source in the culture medium is below 1 mM. This nitrogen regulatory system was optimized by introduction of expression cassettes consisting of additional elements of the ntr-system. These artificial constructions result in enhanced recombinant gene expression in the production phase. Furthermore, the basic recombinant protein level during the growth phase is reduced due to a tighter promoter control. A three- to four-fold higher accumulation of chloramphenicol-acetyltransferase (as reporter protein) and of anti-EGF-receptor miniantibodies was achieved by increasing the amount of the final regulator molecule NtrC approximately P via plasmidal co-expression of the ntrC gene. The introduction of a modified glnA promoter 1 inverse to **glnAp2** lowered the basic activity of **glnAp2** to about one half. It is assumed that under nitrogen excess conditions sigma 70-RNA polymerase binds at **glnAp1** and thereby prevents most of the binding of sigma 54-RNA polymerase at **glnAp2**. The optimized expression systems were successfully applied in low and high cell density cultivations. In the fed-batch phase of high cell density cultivations recombinant protein formation was induced through external nitrogen limitation under FIA-controlled concentration of glucose as carbon source.
- L133 ANSWER 59 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
- AB A review with 17 refs. on the novel 1-deoxy-D-xylulose-5-phosphate (DOXP) pathway of **isopentenyl diphosphate (IPP)** formation, which is located in plastids. Higher plants and several algae groups possess a dichotomy in their **isoprenoid** biosynthesis, whereby their plastidic **isoprenoids** are **synthesized** via the novel DOXP pathway. However, their cytosolic sterols are formed via the cytosolic **acetate/mevalonate** pathway of **IPP** formation. Various mono- and diterpenes are also formed via the plastidic DOXP pathway. Apparently, the DOXP pathway is present in all oxygen-evolving photosynthetic organisms. Data indicate that the prokaryotic chloroplasts as endosymbionts conserved their former bacterial DOXP pathway of **IPP** formation which appears to be as old as the **acetate/mevalonate** pathway that has been found in other bacterial groups.
- L133 ANSWER 71 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 38
- AB Response surface methodology was used to examine the effects of five components of the medium on **astaxanthin** content and **astaxanthin production** of *Haematococcus pluvialis* in batch culture based on the central composite rotatable design. The medium components considered included sodium **acetate**, potassium nitrate, major elements, trace elements and vitamins. Within the range of the concentrations tested, all the medium components, except the vitamins exhibited significant effects on the **astaxanthin** content and **astaxanthin production**. The optimal nutrient concentrations for **astaxanthin** content (mg g(-1) dry cells) were 1.64 g litre(-1) sodium **acetate**, 0.03 g litre(-1) potassium nitrate, 40 ml litre(-1) of the major element stock solution and 0.14 ml litre(-1) of the trace element stock solution. The optimal nutrient concentrations for **astaxanthin production** (mg litre(-1)) were similar to those for the **astaxanthin** content (mg g(-1) dry cells); the higher concentrations of sodium **acetate** and the major element stock solution plus a lower concentration of potassium nitrate could significantly enhance the **astaxanthin**.

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- L133 ANSWER 78 OF 558 MEDLINE on STN DUPLICATE 41
AB Labeling experiments using [1-13C]acetate or [1-13C]glucose were performed with opportunistic pathogenic bacteria, with innocuous bacteria related to pathogenic species or with phytopathogenic species. The labeling pattern was determined in the isoprenic moiety of ubiquinone or menaquinone derivatives. These experiments showed that Acinetobacter, Citrobacter, Erwinia, Pseudomonas, Burkholderia, Ralstonia and Mycobacterium synthesize their isoprenoids via the mevalonate-independent glyceraldehyde 3-phosphate/pyruvate route. Enzymes of this novel bacterial metabolic route, which is apparently absent in vertebrates and man, therefore represent potential targets for a novel type of antibacterial drugs.
- L133 ANSWER 80 OF 558 HCPLUS COPYRIGHT 2004 ACS on STN
AB Factors affecting manufacture of carotenoids with photosynthetic Rhodopseudomonas sp. R-41. The yield of carotenoid was increased from 23.8 mg/g dry cell to 57.3 mg/g dry cell under the optimal conditions: acetate as C source, Na glutamate N source, yeast exts. growth factors, Mg²⁺ 4 mg/L, Fe³⁺ 2 mg/L, 1500 lx and incubation at 30°, micro-acerbic for 120 h.
- L133 ANSWER 131 OF 558 MEDLINE on STN DUPLICATE 68
AB The use of a modified Escherichia coli glnAP2 promoter results in the formation of both homologous and heterologous, cytoplasmic and periplasmic recombinant proteins in a nitrogen concentration dependent manner. As in the E. coli nitrogen regulatory system, glnAP2 controlled gene expression is induced when ammonium concentration in the growth medium is below 1 mM (nitrogen limitation), otherwise only extremely low expression of recombinant genes is observed. Both high cell density cultivations (HCDC) and low cell density cultivations (LCDC) gave similar results for inducibility and formation of the following recombinant proteins: chloramphenicol-acetyltransferase, phosphorylcholine binding mini-antibodies (scFv-dhlx of McPC603) and K1-streptokinase. Recombinant proteins were formed in quantities of about 2-3% of total cellular protein. At low cell densities, slightly higher quantities resulted under partial nitrogen limitations than under total nitrogen limitation. In contrast, high cell density cultivations resulted in lower product concentrations at partial nitrogen limitation compared with total nitrogen limitation. These lowered product concentrations were probably due to the very high amounts of K⁺ or Na⁺ ions which accumulated during pH-regulation, thereby disturbing growth. HCDC under partial nitrogen limitation decreased proteolysis of recombinant proteins, therefore reduced amounts of proteases are considered to be responsible.
- L133 ANSWER 216 OF 558 MEDLINE on STN DUPLICATE 109
AB Transcription of the Ntr regulon is controlled by the two-component system consisting of the response regulator NRI (NtrC) and the kinase/phosphatase NRII (NtrB), which both phosphorylates and dephosphorylates NRI. Even though in vitro transcription from nitrogen-regulated promoters requires phosphorylated NRI, NRII-independent activation of NRI also occurs in vivo. We show here that this activation likely involves acetyl phosphate; it is eliminated by mutations that reduce synthesis of acetyl phosphate and is elevated by a mutation expected to cause accumulation of acetyl phosphate. With purified components, we investigated the mechanism by which acetyl phosphate stimulates glutamine synthetase synthesis. Acetyl phosphate, carbamyl phosphate, and phosphoramidate but not ATP or phosphoenolpyruvate acted as substrates for the autophosphorylation of NRI in vitro. Phosphorylated NRI produced by this mechanism exhibited the properties associated with NRI phosphorylated by NRII, including the activated ATPase activity of the central domain of

NRI and the ability to **activate** transcription from the nitrogen-regulated glutamine synthetase **glnAp2 promoter**

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